ALB CESHIP AND
BOARD

2001

Annual Report

Responding to a Strong Economy

Alberta Apprenticeship
and Industry Training

Excellence through training and experience

For additional copies contact:

Board Support and Business Integration
Apprenticeship and Industry Training
Alberta Learning
10th Floor, Commerce Place
10155–102 Street
Edmonton, Alberta
T5J 4L5
Telephone: (780) 427-8765
Fax: (780) 422-7376

To be connected toll-free
within Alberta call 310-0000.

This report is also available
on the Internet at **www.tradesecrets.org**

Deaf or Hearing Impaired with TDD/TTY
units call 427-9999 in Edmonton.
Other locations call 1-800-232-7215.

© The Crown in Right of the Province of Alberta,
as represented by the Minister of Learning
ISSN 1189-8844

Alberta

APPRENTICESHIP AND INDUSTRY TRAINING BOARD

10th floor, Commerce Place
10155 - 102 Street
Edmonton, Alberta
Canada T5J 4L5

Telephone 780/427-8765
Fax 780/422-7376
aitboard@gov.ab.ca

www.tradesecrets.org

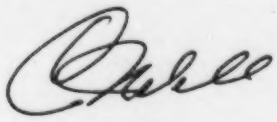
Date 2002

Honourable Dr. Lyle Oberg
Minister
Alberta Learning
204 Legislature Building
10800-97 Avenue
Edmonton, Alberta
T5K 2B6

Dear Dr. Oberg:

I am pleased to provide you with the tenth Annual Report of the Alberta Apprenticeship and Industry Training Board. This report covers the Board's operations and achievements for the period April 1, 2001 to March 31, 2002. It also presents a statistical overview of the Alberta apprenticeship and industry training system.

Respectfully submitted,



C.J. (Cliff) Williams
Chairman

Printed on recycled paper

TABLE OF CONTENTS

Message from the Board Chairman 3

Apprenticeship at a Glance 4

Apprenticeship and Industry Training: The Board and the System 5

The Industry Network 7

Goals and Key Accomplishments for 2001–2002 8

Celebrating Excellence 17

Biographies of Board Members 19

Appendices 29

- The Board 30
- Award and Scholarship Recipients 33

Statistical Profiles: Alberta's Apprenticeship and Industry Training System 38

- Alberta Apprenticeship and Provincial Labour Force Statistics, 1996 to 2001 (table 1) 40
- Number of Apprentices Registered by Year, 1996 to 2001 (chart 1) 40
- Number of Alberta Apprentices Registered and Certified by Trade, 2001 (table 2) 41
- Total Number of Apprentices Registered (Totals, Averages and Percentage Changes) by Trade, 1996 to 2001 (table 3) 42
- Total Number of Apprentices Registered by Year, 1985 to 2001 (chart 2) . . . 43
- Age of Apprentices Registered for First Time in First Trade, 2001 (chart 3) 43
- New Apprentices Registered (Totals, Averages and Percentage Changes) by Trade, 1996 to 2001 (table 4) 44
- Total Number of Individuals Certified, 2001 (table 5) 45
- Number of Apprentices Certified, 1961 to 2001 (chart 4) 47
- Technical Training Attendance by Institution and School Year, 1997/98 to 2001/02 (table 6) 47
- Number of Apprentices Registered, Certified and Attending Technical Training by Apprenticeship and Industry Training Office Locations, 2001 (table 7) 48
- Industry Committee Meetings by Trade/Occupation, 2001 (table 8) 49
- Number of Participants in the Registered Apprenticeship Program (RAP) by Trade as of December 31, 2001 (table 9) 51
- Number of New Registrants in the Registered Apprenticeship Program (RAP) by Year, 1992 to 2001 (chart 5) 52

A MESSAGE FROM THE BOARD CHAIRMAN

As Chairman of the Alberta Apprenticeship and Industry Training Board, I am proud to present our 2001-2002 Annual Report, ***Responding to a Strong Economy***, which summarizes the activities and accomplishments of the Board over the past year.

Alberta's economy continued to be strong—a trend reflected in the ongoing demand for qualified trades people. As a result, Alberta's apprenticeship and industry training system experienced a record-high number of registered apprentices. The Board continued its collaboration with industry, government and educators to maintain high standards of training and improved access to technical training.

The Board also continued its efforts to strengthen the network of local and provincial apprenticeship committees, occupational committees, and other industry committees. A workshop was held to discuss current issues facing the network and to identify ways of enhancing it over the next two years.

The Board focused on rewarding individuals and employers who have contributed to making Alberta's apprenticeship and industry training system one of the best in the world. This year the Board introduced two new awards, adding to the many ways of recognizing excellence among the province's apprentices, trades people, instructors and employers. Another first is a perpetual scholarship program created with over $1.3 million contributed by industry, and $2 million in matching funds provided by Alberta Learning. Thanks to the efforts of the fundraisers and donors, we can continue to recognize our top apprentices in years to come.

Other activities of the Board over this past year included:

- introducing a new designated occupation, Steel Detailer, effective January 1, 2002;
- improving communication with apprentices and other participants in the system;
- contributing to interprovincial labour mobility;
- designing initiatives to increase the participation of Aboriginal peoples in apprenticeship;
- considering the designation of new trades and occupations; and
- promoting apprenticeship and industry training.

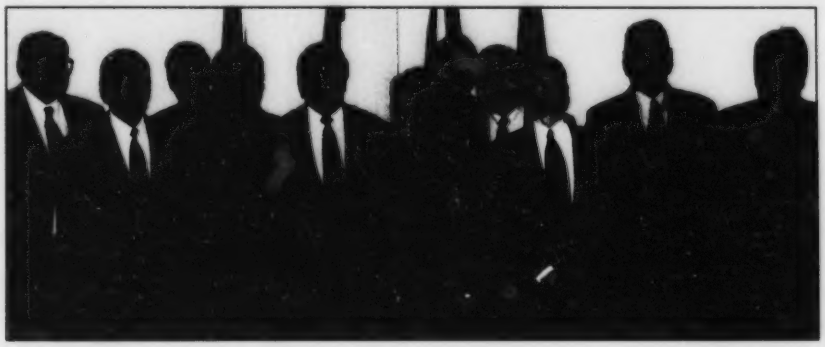
I am confident Alberta's apprenticeship and industry training system will continue to be successful in developing a highly skilled and trained workforce in response to the strong economy.

C. J. (Cliff) Williams
Chairman

APPRENTICESHIP AT A GLANCE

- Alberta has 51 designated trades and five designated occupations.
- In 2001, there were 4,952 people certified in Alberta.
- As of March 31, 2002, there are 39,323 registered apprentices. This represents a 17 per cent increase over the previous year.
- The most common age of Alberta apprentices registered for the first time in their first trade is 19.
- Alberta has ten per cent of Canada's population and trains more than 20 per cent of the country's apprentices.
- Alberta produces more journeymen with Red Seals than any other province in Canada. In 2001, 4,002 journeymen were issued Red Seals – an increase of five per cent over the previous year.
- Apprenticeship programs in most of the designated trades are three to four years.
- Most apprentices spend 80 per cent of their time gaining on-the-job training and work experience and 20 per cent in technical training.
- Employers hire and register apprentices, pay wages and provide journeyman supervision.
- Over 900 technical training classes were offered in 2001–2002.
- Apprentices contribute to their technical training by paying tuition fees and paying for books and other costs.
- Apprentices may qualify for grants or scholarships.
- 980 high school students are registered in the Registered Apprenticeship Program (RAP). In addition, 1,059 apprentices who started in RAP are currently continuing in a regular apprenticeship program.
- The first RAP scholarships were awarded to 50 apprentices in 2001.
- A 2002 survey showed employers are satisfied with the apprenticeship training system.
    - 97 per cent of employers were satisfied or very satisfied with the skills of their certified journeymen.
    - 95 per cent of employers associated with the system were satisfied or very satisfied with it.
    - 87 per cent of employers were satisfied or very satisfied with the content of their trade's technical training program.
- A 2001 survey showed graduating apprentices are satisfied with the apprenticeship training system.
    - 92 per cent of graduates were somewhat or very satisfied with the overall quality of their work experience.
    - 95 per cent of graduates were somewhat or very satisfied with the overall quality of their technical training.
    - Based on their experience with the Alberta apprenticeship program, 95 per cent of graduates would still have chosen to become an apprentice.
- The employment rate for graduates of apprenticeship programs is 97.5 per cent, based on the results of the 2001 survey of 2,948 graduates. At the time of the 2001 survey of graduates, 93 per cent of apprentice graduates were working in the trade for which they apprenticed.
- For more information visit **www.tradesecrets.org**

APPRENTICESHIP AND INDUSTRY TRAINING: THE BOARD AND THE SYSTEM



The Alberta Apprenticeship and Training Board, December 2001. From left to right: Don Lezetc, Lawrence Bates, Leonard Gabert, Bill Bussing, Cliff Williams (Chairman), Marsha Cowley, Brent Bish, Brian Bickley, Craig Evans, Alex Munro and Bob Genée. Missing: Doug Smith, Henry Yip

Alberta's apprenticeship and industry training system is an industry driven system that ensures a highly skilled, internationally competitive workforce in over 50 designated trades and occupations. This workforce supports the economic progress of Alberta and its competitive role in the global market. Industry (employers and employees) establishes training and certification standards and provides direction to the system through an industry committee network and the Alberta Apprenticeship and Industry Training Board. The Alberta government provides the legislative framework and administrative support for the apprenticeship and industry training system.

Role of industry

While the government supports Alberta's apprenticeship and industry training system, it is driven by industry – a term that includes both employers and employees. The Alberta Apprenticeship and Industry Training Board oversees the system. The system relies on a province-wide network of trade and occupation-specific committees that represent the interests of industries requiring skilled workers in the designated trades and occupations. Each committee is composed of equal numbers of employers and employees. The committee network is the foundation of the apprenticeship and industry training system.

Alberta Apprenticeship and Industry Training Board

The Alberta Apprenticeship and Industry Training Board is appointed by the Lieutenant Governor in Council and consists of a chairman and 12 members from designated trades (eight members) and industry other than designated trades (four members). The members equally represent employers and employees.

The Board's primary responsibility relates to establisning the standards and requirements for the training and certification in programs under the *Apprenticeship and Industry Training Act*. As well, it makes recommendations to the Minister of Learning about the needs of Alberta's labour market for skilled and trained workers, and about the designation of trades and occupations.

"The service that field consultants provide to employers and apprentices is a key component of Alberta's apprenticeship system."

Svend Christensen, Environmental Health and Safety Coordinator for Site Maintenance, Dow Chemical

Industry Committee Network

It is the role of the trade and occupation-specific committees and the Board to determine the scope (the description of the work) of each trade and occupation and the standards for skills and competencies required for training and certification.

Individual employers

Individual employers support the apprenticeship and industry training system by employing, training and providing apprentices an opportunity to develop their skills on the job, and by participating on the committees.

Role of government

Alberta Learning works with industry, employer and employee organizations and technical training providers to:

- facilitate the development and maintenance of industry training and certification standards,
- provide registration and counseling services to apprentices and employers,
- work with institutions to coordinate technical training, and
- certify apprentices and others who meet industry standards.

Role of technical institutes and colleges

The technical institutes and colleges also participate in Alberta's apprenticeship and industry training system. They work with the Board and the industry committees to enhance access and responsiveness to industry needs through the delivery of technical training. They develop lesson plans from the course outlines established by industry and deliver technical training to apprentices.

Through the combined efforts of industry, government and training institutions, Alberta's apprenticeship and industry training system is able to respond to the labour market and contribute to developing a highly skilled workforce that is competitive nationally and internationally.

The many opportunities for communication ensure the apprenticeship and industry training system is timely, up to date and meets the needs of its participants.

THE INDUSTRY NETWORK

Structure and Organization of the Alberta Apprenticeship and Industry Training System

"Having these workshops is a great opportunity for industry to get together to compare notes."

Ray Massey, Former Presiding Officer of the Painter and Decorator PAC, and new Board member, speaking about the 2001 Network Workshop

Alberta's apprenticeship and industry training system relies on a network of industry committees. These include local and provincial apprenticeship committees in the designated trades, occupational committees in the designated occupations, and others. All are composed of equal numbers of employers and employees. The industry committee network is the foundation of Alberta's apprenticeship and industry training system.

The role of the industry committees includes:

- recommending to the Board the standards for the skills and competencies required for certification,
- establishing technical training course outcomes,
- monitoring changes and identifying the need for improvements in training,
- recognizing related training and certification, and
- making recommendations to the Board about the designation or redesignation of trades and occupations.

The Board is constantly considering ways to strengthen the industry network and improve the apprenticeship and industry training system. With these objectives in mind, the Board and the department sponsor industry network workshops, bringing system stakeholders together.

This year's workshop, entitled *Partnerships in Progress—Strengthening our System*, was held in Edmonton in October 2001. A total of 225 people attended including representatives of the committees, the K–12 and post-secondary learning systems and government. For members of the industry committees, it was an opportunity to learn more about the network and their role within it. It allowed them to meet with one another and discuss ways of improving the committee network. The participation of representatives from the K–12 learning system enriched the discussion of how to increase awareness of apprenticeship and industry training programs for youth within the secondary school system.

The Alberta Apprenticeship and Industry Training Board is guided in its day-to-day operations by its strategic plan. The strategic plan evolves and is adjusted as necessary to ensure the Board's priorities continue to respond to emerging issues and changes in the political, socio-economic and technological environment.

The Board established three strategic goals to help it successfully fulfill its mandate and achieve its vision of the apprenticeship and industry training system. The goals relate to training, communication and standards.

Training

The Alberta Apprenticeship and Industry Training Board works to ensure training is responsive to the needs of industry and the economy. In 2001–2002, the Board continued to direct its efforts toward supporting alternative forms of training, encouraging the modularization of technical training curriculum, enhancing relationships with publicly funded training institutions, and improving methods of on-the-job training.

"We want the apprentices we work with to know that through training and education the opportunities are endless."

Bob Hearn,
Personnel Coordinator,
Coram Construction,
Winner of a Top Employer Award for 2000

Key Accomplishments in Training

Training curricula respond to needs of individual trades

- ***Individual Learning Modules completed for four trades***
  Individual Learning Modules (ILMs) help make the delivery of technical training more flexible—a priority for the Board. During 2001, ILMs were completed for four trades—automotive service technician, heavy equipment technician, millwright and machinist. These modules were distributed for the 2001–2002 school year. ILMs for the welder and electrician trades are well underway, and those for the carpenter and plumber trades have been initiated.

- ***Updated course outlines approved***
  The Board and the provincial apprenticeship committees (PACs) regularly review course outcomes and examinations to ensure programs are keeping up with emerging skill requirements. During 2001–2002, the Board, on the recommendation of the respective PACs, approved updated course outlines for the following trades: crane and hoisting

equipment operator–tower crane, electronic technician, motorcycle mechanic, parts technician and plumber.

- ***ASSET Program in place***
  The Board approved the Automotive Student Service Educational Training (ASSET) Program. ASSET is a Ford sponsored training program designed specifically for automotive service technician (AST) apprentices employed by Ford dealers. In addition to the provincial AST course outcomes, apprentices receive the latest Ford product training and formal instruction on Ford equipment. The inaugural first-period technical training began on March 4, 2002 at the Southern Alberta Institute of Technology (SAIT).

  Ford ASSET is similar to the Automotive Service Educational Program (ASEP), a General Motors sponsored training program that has been in Alberta for several years.

- ***Evaluating alternate delivery methods***
  Instead of attending technical training in blocks of four to ten weeks, apprentices in some trades have the option of various alternate delivery methods: competency based apprenticeship training (CBAT), mobile delivery, weekly apprenticeship training system (WATS) and distance delivery. During 2001, an evaluation was completed to determine whether alternate delivery improves or enhances access to technical training and how that delivery method compares to the traditional block release. The evaluation included surveys of 1,796 apprentices, employers and training institute and college staff, and the results indicated respondents were generally satisfied with the technical training.

  While respondents acknowledged alternate delivery methods are more convenient and make technical training more accessible, they saw the traditional block method as having advantages. The survey found no significant differences in achievement between alternate and traditional delivery.

On-the-job training improved

- ***Training apprentices to provide coaching***
  The Board continued to promote the train-the-trainer concept to

"I'm very proud to help support the trades in Alberta, and am highly involved in promoting mentorship programs like Train-the-Trainer..."

Brian Bickley, Industrial Relations Manager, Syncrude Canada and outgoing member of the Alberta Apprenticeship and Industry Training Board

provincial apprenticeship committees (PACs). It recommended the use of an easy-to-understand video and print materials called *Workplace Coaching Skills* to teach final-year apprentices how, as journeymen, to plan and provide on-the-job training for apprentices. Many PACs have already adopted the concept and materials, and more are expected to do so as their course outlines come up for review.

- ***Revising record books***
  One of the Board's objectives is to improve record books. Record books are used to record the progress of apprentices and provide a guide for planning and monitoring on-the-job training and work experience. The Board reviewed a proposal to streamline record books and introduce a common format and design for all trades, making them easier to use. Once the new record books are ready for implementation, information on their use will be provided to employers and apprentices.

High school program meeting the needs

- ***Survey finds satisfaction with the Registered Apprenticeship Program (RAP)***
  In September 2001, the Board reviewed a study of RAP designed to determine whether the program is achieving its goals and to establish baseline data against which to measure future improvements. The study involved conducting telephone surveys with RAP apprentices and their parents, apprentices and journeymen, employers and high school educators.

"RAP is an outstanding program. I will be sharing information on it directly with our senior high students."

2001 Network Workshop Participant

Overall, respondents expressed satisfaction with RAP as follows:

- 88 per cent of all respondents stated they were satisfied or very satisfied with RAP.
- 88 per cent of all respondents were satisfied or very satisfied with the education students received while participating in RAP; and
- 93 per cent of current or former RAP apprentices were satisfied or very satisfied with their decision to participate in RAP.

Respondents also said the program:

- gives them an incentive to do well in school (83 per cent);
- made them more interested in completing high school (94 per cent); and
- helped them be more aware of their career options (98 per cent).

Apprentices complete training program

- ***Timely Completion***
  The Board values timely completion of an apprenticeship program. Every year it measures the percentage of first-year apprentices who complete that year and go on to complete the rest of their program (on-the-job training, work experience and technical training) within two years of their earliest possible completion date. This percentage is called the yearly completion rate. In 2000–2001, the yearly completion rate was 76 per cent. This is similar to the 1999–2000 completion rate where 75 per cent of first-year apprentices went on to graduate from their apprenticeship program within two years of their earliest completion date.

- ***Helping apprentices stay on track***
  In addition to normal contact with apprentices and employers, the Board and Alberta Learning have introduced a system to monitor apprentices' progress through their apprenticeship programs. Apprentices who do not appear to have made progress in the previous 18 months are identified and contacted by the local apprenticeship and industry training office to discuss getting back on track. The monitoring and follow-up is intended to increase completion rates and encourage more apprentices to complete their training within three or four years of registration. This initiative also helps Alberta Learning confirm the number of seats each trade will require at training institutes and colleges.

Journeymen continue to learn

- ***Achievement in Business Competencies Program***
  The Board continues to encourage the development of business skills for Alberta-certified trade and occupational certificate holders.
  Enhancements were made to the Achievement in Business Competencies (Blue Seal) Program to improve and encourage participation in business programs. The Board recognizes completion of business programs at the Northern Alberta Institute of Technology (NAIT), Southern Alberta Institute of Technology (SAIT) and Athabasca University as qualifying for a Blue Seal.

Communication

The Alberta Apprenticeship and Industry Training Board recognizes the importance of communication in promoting apprenticeship and industry training and strengthening and developing partnerships.

Key Accomplishments in Communication

Increased awareness of and satisfaction with apprenticeship programs

- ***Registered Apprenticeship Program participation increases***
  The Board continued to promote the Registered Apprenticeship Program (RAP) through which high school students get work experience in a trade while receiving credit towards their high school diploma. Student participation has grown over the past year by 29 per cent – over 180 Alberta high schools now offer RAP, 980 students are registered in RAP, and over 800 employers are involved.

- ***Promoting RAP***
  The Board worked with CAREERS: *The Next Generation* to promote the trades as a viable career option to students, parents, educators and industry.

  In addition, a new brochure targeting parents of teens has been developed. The brochure provides information on the RAP program and on the experiences of graduates of the program.

- ***Talking with school staff about apprenticeship***
  In 2000, the Board initiated a study to determine what apprenticeship-related information, resources and support are available to students in high school. The 2001 report, *Helping High School Graduates Find their Place in the Trades*, indicated that, with more information about the apprenticeship system, young people would start their apprenticeship training earlier and feel more confident about approaching an employer to hire them as an apprentice.

  As a result, the Board piloted an information session for high school guidance counselors and other staff in the Edmonton region. The purpose was to talk with school staff about the resources available for advising students on apprenticeship and careers in the trades. Fifty-eight school staff from 43 schools attended the session held in November 2001.

"My personal contribution to strengthening the network within my industry is to continue to promote apprenticeship training and journeyman certification in whatever forum is appropriate."

2001 Network Workshop participant

- ***Communicators' Tool Kit***
  In response to requests from industry for communication materials on the apprenticeship and industry training system in Alberta, a communicators' tool kit was developed with input from industry. The tool kit is a marketing tool designed for use by industry committee members to promote the benefits of apprenticeship to a broader range of employers.

Knowledge improved within committee network

- ***Revising and distributing handbook***
  On behalf of the Board, the department surveyed users of the *Resource Manual for LAC and PAC Members*. The manual provides an overview of the apprenticeship and industry training system and explains the committees' roles and responsibilities. Respondents found the manual helpful in their day-to-day activities and suggested minor revisions. These were made, and new information on scholarships, programs and how to improve meetings was added. With the changes and a new title, the manual is appropriate for all industry committees in the system. Called *Apprenticeship and Industry Training—Committee Member Handbook*, the manual was distributed at the Industry Network Workshop in October 2001.

- ***Identifying LAC success factors***
  The Board supported a survey of secretaries of local apprenticeship committees. The survey, *Revitalizing Local Apprenticeship Committees*, asked questions about what makes a successful LAC and how to improve committee operations. The 94 per cent of secretaries who responded linked the overall success of an LAC to several factors:
  - members who are committed and willing to get involved;
  - representation that is adequate and appropriate;
  - recognition of members;
  - effective communication between members and between LACs and PACs; and
  - a meaningful role for the LAC.

Industry more aware of committee network

- ***Targeting potential members***
  The Board developed a brochure to recruit employer and employee representatives to local and provincial apprenticeship committees (LACs and PACs). The communicators' tool kit was also designed and distributed to serve this purpose. Current committee members are encouraged to promote membership when using the tool kit.

Links with training institutions stronger

- ***Ongoing contacts with institutions***
  Strengthening communication with employers, apprentices and training institutions is a high priority for the Board. Representatives of NAIT, SAIT and Fairview College regularly attend board meetings as advisors, with the latter representing all colleges that provide technical training. The technical training providers attend on a rotating basis. In 2001–2002, Lakeland College, Lethbridge Community College, Medicine Hat College, Olds College and Red Deer College sent representatives to board meetings.

  The Board Chairman and Executive Director of Apprenticeship and Industry Training also visit training institutions on a rotating basis where they meet with officials, instructors and apprentices, and tour facilities.

"My personal contribution to strengthening the network within my industry is to serve to the best of my ability on the LAC and PAC for motorcycle mechanics."

2001 Network Workshop Participant

Profile of apprenticeship system and Board increased

- ***Newsletter supports Board priorities***
  Apprenticeship Update informs readers about apprenticeship and industry training activities, profiles apprentices and journeymen, and solicits members for the industry network. Circulation of the newsletter is over 70,000, and contests were added as a way of measuring readership. A special edition of *Apprenticeship Update* included highlights from the October 2001 Industry Workshop.

- ***Participating in interprovincial activities***
  The Chairman of the Board has continued to serve as Chairman of the Interprovincial Alliance of Board Chairs. The Alliance meets at the same times as the Canadian Council of Directors of Apprenticeship (CCDA), providing an opportunity for interaction between the directors and board chairs from across Canada.

  The Chairman, as well as the Executive Director of Apprenticeship and Industry Training, have also continued their participation in interprovincial activities. The Chairman continued his involvement with the Canadian Apprenticeship Forum (CAF), a partnership of labour, business, education, equity groups, the Inter-Provincial Alliance of Board Chairs, the Canadian Council of Directors of Apprenticeship (CCDA), and Human Resources Development Canada. The Canadian Apprenticeship Forum was established to support the apprenticeship delivery systems across Canada and to promote apprenticeship as an effective training and education system that contributes to the development of a skilled labour force. Some CAF projects include:

- an *apprenticeship conference*, planned for June 2–4, 2002 in Vancouver, B.C. The objectives of this conference are to provide delegates with an opportunity to exchange information on a wide range of topics; showcase new and innovative developments in apprenticeship; discuss issues such as skills shortages and the continuing need to promote apprenticeship as a solid career choice; and gain insight regarding apprenticeship from a pan-Canadian perspective.

- the initial phase of an *inventory and information system project*. This project involves the research and planning necessary to build an accessible, user-friendly, 'one-stop' location to obtain a full range of information on apprenticeship programs and topics. Future work will focus on the system's launch, implementation and evaluation.

CAF is also involved in the *promotion* of apprenticeship, discussions respecting a *common core curriculum standard* and improvement of *accessibility and removal of barriers* to apprenticeship.

Standards

"My personal contribution to strengthening the network within my industry will be to ensure that the designated occupation of Steel Detailer is successfully launched and gains momentum."

2001 Network Workshop participant

Developing and maintaining high standards for training and certification continues to be a priority for the Board. In 2001, development continued in the areas of industry standards and interprovincial mobility. Affordability and accessibility also remained a focus.

Key Accomplishments in Standards

Industry standards improved

- ***New trades and occupations designated***
  Outdoor power equipment technician was designated as a trade effective April 1, 2001, and steel detailer was designated as an occupation effective January 1, 2002.

- ***Educational prerequisites reviewed***
  Provincial apprenticeship committees (PACs) and occupational committees set entrance requirements for trades and designated occupations. The Board commissioned an entrance examination project, which involved reviewing the educational prerequisites for all trades and occupations. Examinations based on the prerequisites were developed for trades and occupations in clusters. The examinations are intended to evaluate the likelihood of success

in technical training when a candidate does not meet the prescribed entrance requirements. The new entrance examinations were released in August 2001. The Board will monitor the entrance exams and analyze their effectiveness.

Interprovincial mobility supported

- ***Compliance with Agreement on Internal Trade***
  Alberta is a strong supporter of the Agreement on Internal Trade. This agreement facilitates workers' movement across Canada by accommodating individuals with certificates from other provinces and territories. To comply with the final phase of implementation of the agreement, the Board made provision for an alternate assessment process for individuals from out of province who have not pursued the Red Seal. The Red Seal continues to be the primary instrument for recognizing out-of-province qualifications.

Graduates satisfied with apprenticeship

- ***Surveys conducted regularly***
  Alberta Learning and the Board recognize the need to be accountable for the results of their apprenticeship and industry training activities. Therefore, the department conducts a satisfaction survey with apprentice graduates and employers on alternating years. Employer surveys were conducted in 1998, 2000 and 2002, and graduates were surveyed in 1997, 1999 and 2001.

  The 2001 survey of a sample of recent graduates shows:
  - 95 per cent are satisfied with their apprenticeship decision.
  - 92 per cent are satisfied with the on-the-job training and 95 per cent with the technical training.

  These results represent slight increases over the previous survey.

Apprenticeship initiative piloted

- ***Improving access for Aboriginal peoples***
  Over several years, the Board has been taking steps to improve access to apprenticeship and industry training for Aboriginal peoples and to encourage their participation in apprenticeship programs. The Board continues to work with the Alberta Aboriginal Apprenticeship Committee, which supports these objectives. The committee includes representatives from Aboriginal groups, industry and educational jurisdictions. The Aboriginal Apprenticeship Project, introduced in 2001 and overseen by the committee, will be piloted in Edmonton, Fort McMurray and High Level to assist Aboriginal peoples in entering and completing apprenticeship programs.

Over the past few years, the Alberta Apprenticeship and Industry Training Board has introduced additional ways of recognizing excellence among the province's apprentices, journeymen, students, employers and instructors. Celebrating excellence continues to be a priority, and the Board now presents awards and scholarships in six categories. The Board established the Awards and Scholarships Committee to assist in the selection and recognition of award and scholarship recipients as a result of these additional recognition initiatives.

In 2001, industry raised over $1.3 million in funds for a new scholarship program to annually provide over 150 apprentice scholarships of $1,000 each. Alberta Learning provided $2 million in matching funds. The combined fund will create a perpetual scholarship program, ensuring apprentices are recognized for their excellence.

RAP Apprentice, Aaron Bonertz (second from right) presented with RAP Scholarship by Cliff Williams, Chairman, Apprenticeship and Industry Training Board (left), Eric Newell, Chairman, Board of Directors, CAREERS: The Next Generation (second from left) and Dr. Lyle Oberg, Minister of Learning (right)

Alberta Apprenticeship Awards and Scholarships

- The Alberta Apprenticeship and Industry Training Board honoured 56 apprentices from across Alberta with a **Top Apprentice Award*** for 2000–2001. These awards recognize their achievements in the final year of their apprenticeship program. The apprentices were chosen on the basis of their first place marks and positive recommendations from their employers. At the same ceremony, an **Employer Award of Excellence** for 2001 was presented to HWD Construction Ltd. of Grande Prairie and Hoover Mechanical Plumbing and Heating Ltd. of Calgary.

- The $500 **Thygesen Scholarships** for 2000–2001 were awarded to Brad Jones, a millwright apprentice employed by Power Systems Division of Collicutt Hanover in Red Deer, and Harrison Shirt, a carpenter apprentice employed by Sierra Ventures of Edmonton. The annual Thygesen Scholarship was established by Jake Thygesen, former Board Chairman, to honour apprentices who excel in a trade and are regarded by their employers as uniquely gifted and motivated.

- In November 2001, at a special event hosted by CAREERS: *The Next Generation*, 50 apprentices were presented with a **Registered Apprenticeship Program (RAP) Scholarship*** in recognition of their academic achievement and recommendation by an employer, supervisor or

*The names of the recipients of the Top Apprentice awards and RAP Scholarships appear in the appendices

"Trades instructors play a crucial role in the development of apprentices and should be recognized for their important work."

Cliff Williams, Board Chairman, Introducing the Instructor of Excellence Award

journeyman. Created through a cost-sharing arrangement with industry, the $1000 scholarships are awarded annually, with apprentices receiving $700 in their first year of technical training and $300 in their second.

- **The Instructor Award of Excellence** was presented for the first time in 2001 to recognize instructors who demonstrate excellence in training delivery and communications with apprentices. Two instructors are awarded, one from an institution in the north of the province and one from the south. These first recipients were Wendell Young, Electrical Instructor at Lakeland College (north) and Rob Sonnenberg, Cook Instructor at Lethbridge Community College (south).

Recipients of the Chairman's Award of Excellence (Left to Right) Board Chairman, Cliff Williams, Dwight Nilsson, Walt Healy, Shirley Dul, Executive Director of Apprenticeship and Industry Training, George Doty, and Ray Jeffery.

- The **Chairman's Award of Excellence** was also introduced in 2001. Ray Jeffery (heavy equipment technician), George Doty (plumber), Dwight Nilsson (automotive service technician) and Walter Healy (motorcycle mechanic) were the first recipients of this prestigious award, which recognizes outstanding commitment to a specific trade and to the principles of apprenticeship through service in the industry network. Board Chairman, Cliff Williams, presented the awards at the Industry Network Workshop in October 2001.

Skills Competitions

The Board supports skills competitions by collaborating with Skills Canada Alberta to encourage the involvement of Alberta apprentices in provincial, national and international competitions.

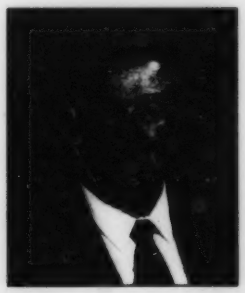
- The **Provincial Skills competitions** were held May 29–30, 2001 in Edmonton. Over 700 competitors from across Alberta competed in 39 trade and technology competition areas.

- The **National Skills Canada competitions** were held in Edmonton in May-June 2001. Of the 156 medals awarded to competitors from across the country, Albertans in designated trades and occupations received 23: eight gold, ten silver and five bronze.

- Ryan Baldwin, a plumber apprentice from Vermilion, placed fourth in the plumbing competition at the 36th annual **World Skills Competition** in Seoul, Korea.

In Memoriam ...
Walt Healy died in January 2002. He was an avid supporter and active participant in Alberta's apprenticeship and industry training system for many years. He will be missed.

BOARD CHAIRMAN



C. J. (CLIFF) WILLIAMS

Mr. Williams is the chairman of the Board. His term began on January 1, 1998.

Mr. Williams holds trade certificates in the plumber and gasfitter trades. He has also completed numerous courses in estimating, project and materials management and critical path scheduling. After completing his apprenticeship, he worked as a journeymen and a foreman until he founded Williams Plumbing & Heating Co. Ltd. in 1959. He was chief executive officer for 28 years.

In 1988, Mr. Williams joined Construction Labour Relations (CLR)—an Alberta Association, as a Labour Relations Representative, an organization he had been instrumental in founding in 1970. Prior to joining the association as an employee, he held positions of director and chairman of the board and chairman of the Mechanical Trade Division of the Association. Cliff retired from full-time employment with CLR at the end of 1998.

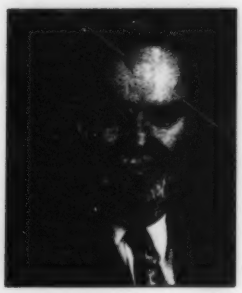
Mr. Williams has participated in many other organizations. He was a member of and served on committees for the United Association of Journeymen and Apprentices of the Plumbers and Pipefitting Industry of the United States and Canada, Local 488. He has also served as chairman of the Provincial Division and the Edmonton District of the Mechanical Contractors Association of Alberta. He has been a member of the Alberta Labour Relations Board since 1983.

He is currently a trustee for two trust funds: Local 488 Edmonton Pipe Industry Health, Welfare and Pension Fund; and Local 8 Sheet Metal Workers Health and Welfare Trust Fund.

Since becoming Chairman of the Alberta Apprenticeship and Industry Training Board, Cliff has been elected Chair of the Interprovincial Alliance of Board Chairs (IPA) and is a director, and member of the Administration Committee of the Canadian Apprenticeship Forum (CAF). Both of these Pan-Canadian organizations are dedicated to the betterment of apprenticeship systems throughout Canada.

CURRENT BOARD MEMBERS

Representing employers in designated trades



F.D. (FRANK) DUFFIN

Mr. Duffin's current term expires December 31, 2003.

Mr. Duffin holds journeyman certificates in the automotive service technician and heavy equipment technician trades, and a Bachelor of Commerce degree from the University of British Columbia.

Mr. Duffin is currently President of Crowfoot Ford Sales in Calgary and Cochrane Ford in Cochrane. He has worked in the automotive sector in Alberta, North West Territories and British Columbia.

Mr. Duffin was born in Alberta with roots in Southern Alberta before the arrival of the railway. His community involvement extends to the Kiwanis Club, United Way, YMCA, MDA Charities and Calgary Stampede.

Mr. Duffin is the recipient of the Calgary Chamber of Commerce Small Business Award, MacLean's Dealer of Excellence Award, SAIT Distinguished Alumnus Award, and North Wood University Dealer Education Award.

JIM HILL

Mr. Hill's current term expires December 31, 2004.

Jim Hill holds journeyman certificates in both the sheet metal worker and roofer trades and a Bachelor of Education degree from the University of Alberta at Calgary. He is currently Board Chair of the Charlton & Hill Group – an organization he has been employed with in various capacities for over 35 years. The company provides roofing, metal fabrication, welding and HVAC (heating, ventilation and air-conditioning) services in the Lethbridge area.

Mr. Hill is past President of the Alberta Roofing Contractors Association. He has also been involved in the provincial and local apprenticeship committees for the sheet metal worker trade and is an active supporter of the Lethbridge Community College and the University of Lethbridge. He is a member of the Lethbridge Rotary Club and Chair of the Rotary's Adopt-A-Highway Program.

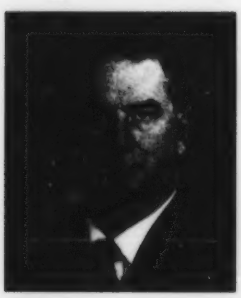
RAYMOND E. MASSEY

Mr. Massey's current term expires December 31, 2004.

Mr. Massey holds a painter and decorator trade certificate with an Interprovincial Red Seal. He obtained his painting experience with Taylor Decorating and the Calgary Housing Authority. In 1978, he formed Ray-Nor Painting & Decorating Ltd. He has been President of the company for 23 years, regularly employing between 20 and 30 painters and apprentices.

Mr. Massey has participated in Alberta apprenticeship committees, both local and provincial, for the past 11 years, and has served as presiding officer on each for six years. He also has participated in industry training workshops and labour studies since 1990. Mr. Massey was instrumental in the successful startup of the Alberta Painting Contractor's Association, serving as Treasurer for two years and Chair of the Apprenticeship Committee for several years.

Mr. Massey has been a volunteer with Minor Hockey for eight years and continues to participate in other community activities.



ALEXANDER (ALEX) MUNRO

Mr. Munro's current term expires December 31, 2003.

Mr. Munro holds a trade certificate with an Interprovincial Red Seal in the millwright trade. He has over 30 years of operations and maintenance experience in the pulp, paper and wood products industries in British Columbia and Alberta. Mr. Munro was previously employed by Millar Western Industries and Alberta Pacific Forest Industries Inc. He is presently a maintenance consultant in the forest product sector.

Representing employees in designated trades

BRENT M. BISH

Mr. Bish's current term expires December 31, 2004.

Mr. Bish holds journeymen certificates in the heavy equipment technician, parts technician and crane and hoisting equipment operator trades, and an intermediate warehousing occupational certificate. He has over 20 years experience in the mining industry and works as a heavy duty mechanic at Cardinal River Coals Ltd., Hinton. He is also first vice president of the United Mine Workers of America, Local 1656.

Mr. Bish has played an active role in initiatives such as the establishment of warehousing as a designated occupation.

MARSHA COWLEY

Ms. Cowley's current term expires December 31, 2003.

Ms. Cowley holds a hairstylist trade certificate in Alberta and Ontario, and the Alberta Achievement in Business Competencies Blue Seal.

Ms. Cowley has worked in the hairstylist trade for 30 years. For 20 years, she has worked at Headquarters Salon & Day Spa in Sherwood Park. Prior to that, she owned her own salon in Ontario. Before becoming a Board member, Ms. Cowley was active in apprenticeship and industry training for 16 years. She was the Presiding Officer for both the Local Apprenticeship Committee and the Provincial Apprenticeship Committee for the hairstylist trade. Ms. Cowley was involved with developing Interprovincial (Red Seal) Program standards for the hairstylist trade. Since becoming a Board member, Ms. Cowley has become a member of the Skills Canada Alberta Board.

DONALD (DON) LEZETC

Mr. Lezetc's current term expires December 31, 2003.

Mr. Lezetc holds trade certificates with an Interprovincial Red Seal in the welder and boilermaker trades, as well as Alberta "A" and "B" pressure welder certificates. For the past 11 years, he has been the administrator for the Alberta Boilermaker Joint Apprenticeship and Training Trust Fund. Previously, he worked as the Training Fund's instructor of boilermaker and welder upgrading programs.

Mr. Lezetc has been a member of the International Brotherhood of Boilermakers for 41 years working as a welder, boilermaker and supervisor on construction and maintenance of electric power installations, refineries, pulp mills and fertilizer plants in Alberta, British Columbia and Saskatchewan. He was involved in the provincial and local apprenticeship committee system for 15 years before becoming a Board member.

ROD D. MOORE

Mr. Moore's current term expires December 31, 2003.

Mr. Moore holds a trade certificate in the power systems electrician trade. He has completed numerous courses in his field, including several management and supervisory certificate programs. Mr. Moore has over 25 years experience in the electrical industry and is employed as the Transportation Operations Manager for EPCOR Distribution and Transmission.

Mr. Moore is also a director of the International Municipal and Signals Association (IMSA) for the Western Prairie region, and a member of the Edmonton Construction Association (ECA), the Canadian Public Works Association (CPWA), and the Alberta Roadbuilders and Heavy Construction Association (ARHCA).

Representing employers in non-trades occupations

LEONARD J. GABERT

Mr. Gabert's current term expires December 31, 2003.

Mr. Gabert has 27 years experience in the rural natural gas industry. He is currently director, Paintearth Gas Co-op Ltd., zone director and past secretary treasurer for the Federation of Alberta Gas Co-ops Ltd. He is active in co-ordinating and promoting training programs required by the industry. Mr. Gabert played an instrumental role in establishing the gas utility operator as a designated occupation.

Mr. Gabert owns a mixed farm in the Castor area, is actively involved in the agriculture industry, and volunteers for various charitable organizations.

LES LAROCQUE

Mr. LaRocques's current term expires December 31, 2004.

Mr. LaRocque holds a diploma in mechanical engineering technology. He has 22 years experience in the mechanical contracting business as an estimator and project manager and is president of Botting & Associates Alberta Ltd., a mechanical contracting firm in Calgary.

Mr. LaRocque is on the board and is past President of the American Society of Heating Refrigerating and Air Conditioning Engineers, Southern Alberta Chapter. He is also on the board and past Chairman of Merit Contractors Association.

Representing employees in non-trades occupations

D. CRAIG EVANS

Mr. Evans' current term expires December 31, 2004.

Mr. Evans holds a parts technician trade certificate. He has been employed by Waterous Detroit Diesel-Allison for 28 years, where he is currently a Parts Manager.

Mr. Evans has served as Presiding Officer and member for both the Provincial Apprenticeship Committee and a Local Apprenticeship Committee for the parts technician trade.

BOB GENÉE

Mr. Genée's current term expires December 31, 2003.

Mr. Genée holds a trade certificate with an Interprovincial Red Seal in the carpenter trade.

Mr. Genée has worked in the construction industry for 24 years, of which 18 years was in the carpenter trade. He has been employed by Coram Construction for over 12 years and has been a District Administrator for the past six years.

Mr. Genée is also certified as a Construction Safety Officer for the Alberta Construction Safety Association.

OUTGOING BOARD MEMBERS

LAWRENCE W. BATES

Mr. Bates represented employers in the designated trades on the Board until November 30, 2001.

Mr. Bates has 37 years of experience in the automotive industry. He is currently president of Stadium Nissan Inc., Calgary. He has worked for General Motors of Canada as a mechanical training instructor, district service manager and supervisor of customer services. He also worked for Jack Carter Chev Olds Cadillac in Calgary as service manager, lease department manager and new vehicles sales manager.

Mr. Bates is also a director of the Calgary Better Business Bureau, past chairman of the Nissan Canada Advisory Board, and a member of the Calgary Chamber of Commerce and the Rotary Club of Calgary. He is past director of the Motor Dealers Association of Alberta, past president of the Calgary Motor Dealers Association, and past chairman of the Nissan Dealer Performance Group and of the Calgary International Auto and Truck Show.

BRIAN G. BICKLEY

Mr. Bickley represented employers in non-trades occupations on the Board until November 30, 2001.

Mr. Bickley holds certificates in industrial instrumentation, watch making and adult continuing education. Mr. Bickley has over 30 years experience in industry, and is currently employed by Syncrude Canada Ltd. as industrial relations manager.

Mr. Bickley is involved with the Alberta Construction Owners Association of Alberta (COAA). He is chair of the COAA's Workforce Development Coordinating Committee and Essential Skills Committee, and works closely with the COAA's Safety Committee to promote the importance of workplace safety in Alberta, particularly in the construction industry.

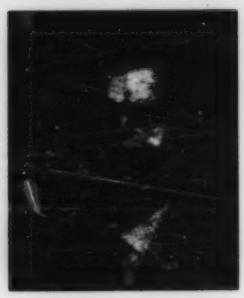
During his time with Syncrude, Mr. Bickley has been instrument supervisor, shutdown manager and maintenance manager. Before joining Syncrude, Mr. Bickely worked with the Steel Company of Canada and Texaco Canada Ltd.

WILLIAM A. (BILL) BUSSING

Mr. Bussing represented employers in the designated trades on the Board until December 31, 2001.

Mr. Bussing holds a bachelor's degree in electrical engineering and a master's degree in economics. He is a registered professional engineer and a member of the Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA). He has 30 years experience in the construction industry, mainly in electrical work, instrumentation and general construction. He is now the manager of special services for Flint Energy Services Ltd.

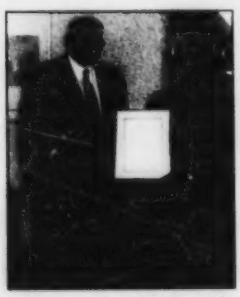
Mr. Bussing is active in several industry organizations including the Merit Contractors Association, Alberta Construction Association and the Construction Owners Association of Alberta. He is past president of the Edmonton chapter and former board member of the Electrical Contractors Association of Alberta.



DOUGLAS SMITH

Mr. Smith represented employees in the designated trades on the Board until December 31, 2001.

Mr. Smith holds trade certificates in the machinist and millwright trades and a certificate in engineering technology. He is employed at TransCanada Pipelines, Plant Engineering department, where he is team leader in the facilities maintenance department. Mr. Smith worked in manufacturing and maintenance engineering in southern Africa, and as a machinist and general foreman for Acro Machine and Fabrication. He has also been an instructor for the mechanical engineering department of the Southern Alberta Institute of Technology, and has over 30 years of industry.



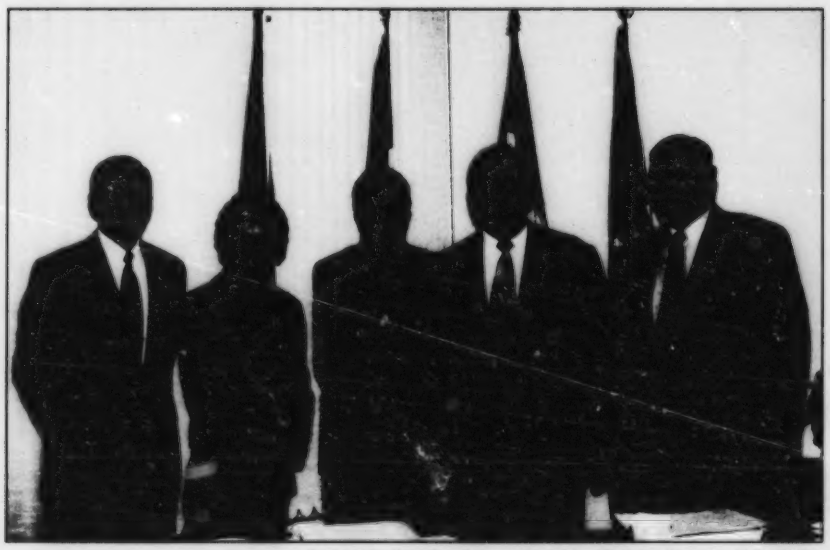
Don Lezetc (left), Vice-Chair of the Board, presents outgoing Board member Doug Smith, with a Certificate of Appreciation for service to the Board.

HENRY C. YIP

Mr. Yip represented employers in the designated trades on the Board until August 21, 2001.

Mr. Yip is a professional engineer in Alberta and Ontario. He is a graduate of the University of Western Ontario and the Advancement Management Program at the Wharton School of Business. Mr. Yip has extensive experience in the telecommunications industry with TELUS Corporation, Jones Lightwave Ltd., and Bell Canada.

Mr. Yip is currently executive vice-president of Network Services for AT&T Canada. He is also on the board of directors of several companies and organizations, including Global Thermoelectric Inc, TR Labs, and the Engineering Science Advisory Council at the University of Western Ontario. Mr. Yip chairs the Wireless Industry Development Working Group for the Alberta ICT Implementation Committee.



Outgoing Board members, Lawrence Bates (left), Bill Bussing (Centre) and Brian Bickley (right) with Board Chairman, Cliff Williams (second from right) and Executive Director, Apprenticeship and Industry Training, Shirley Dul (second from left).

APPENDICES

BOARD MANDATE

The mandate of the Board relates to the standards and requirements for training and certification in programs under the *Apprenticeship and Industry Training Act*. The Board fulfills its mandate by meeting the requirements and exercising the responsibilities outlined in the Act, including:

- advising the Minister of Learning about the needs of the Alberta labour market for skilled and trained people and training and certification in trades and occupations;
- making recommendations to the Minister about the designation of trades and occupations and the changing or rescinding of existing designations;
- establishing or recognizing committees including local and provincial apprenticeship committees, occupational committees, provisional committees and other committees it deems appropriate and appointing members to those it establishes;
- promoting the pursuit of careers in trades and occupations and the training and certification of people in trades and occupations;
- developing policies respecting the recognition of training as equivalent to training provided under the Act;
- making orders respecting: standards and requirements for training and certification in designated trades and for certification in designated occupations; and the criteria or requirements for granting and recognizing trade certificates, occupational certificates and other certificates under the Act;
- making regulations respecting
  - the description of a designated trade or occupation,
  - the standards and requirements of apprenticeship programs and the training of apprentices.

VISION

Alberta's apprenticeship and industry training system will continue its leadership role in developing Alberta's highly skilled and trained workforce. In keeping with the goals of Alberta Learning, the system will be responsive, flexible, accessible and affordable to all Albertans. It will also be accountable for ensuring high quality, industry-oriented training.

MISSION

The mission of the Alberta Apprenticeship and Industry Training Board is to facilitate quality and excellence in Alberta's workforce by encouraging the continued growth of apprenticeship and other occupational training based on clearly established and maintained standards.

PRINCIPLES

In pursuing the goals and objectives of this plan, the Board is guided by several principles.

- Albertans who wish to pursue a career in the trades or designated occupations have opportunities to participate in apprenticeship and industry training and work toward acquiring the highest possible standards of knowledge and skills.
- Apprentices, trainees and employers will make a financial contribution to the costs of technical training in recognition of the benefits they receive.
- Provincial and interprovincial industry standards are the foundation of apprenticeship and industry training in Alberta. Industry, consisting of employers and employees, is responsible for setting training criteria and standards, and for providing on-the-job training and work experience.
- Government, with advice from industry, has a role in regulating apprenticeship training and helping Albertans acquire the skills and competencies needed to work in the trades and designated occupations.
- Apprenticeship and industry training is based on effective partnerships and other relationships between government, industry, training institutions, trainees and apprentices.

BOARD MEMBERSHIP

The Board consists of:

- a Chairman;
- four members representing employers in designated trades;
- four members representing employees in designated trades;
- two members representing employers in non-trade occupations;
- two members representing employees in non-trade occupations.

Two Board members share the role of acting for the Chairman in his absence.

STANDING COMMITTEES OF THE BOARD

The Board has five standing committees to assist with its work.

- **Labour Market Issues and Board Operations Committee**
  Monitors labour market activity, identifies industry-related training needs and opportunities and addresses promotional and operational activities of the Board.
- **Industry Standards Committee**
  Formulates training and certification policy and standards to meet emerging requirements of the apprenticeship and industry training system.
- **Provincial and Local Apprenticeship Committees' and Occupational Committees' Nominations Committee**
  Monitors the operations of the industry advisory network and reviews nominations for membership in the provincial apprenticeship committees (PACs), local apprenticeship committees (LACs) and occupational committees.
- **Nominations Review Committee**
  Together with Alberta Learning, reviews applications and provides recommendations to the Minister regarding the appointment of Board members.
- **Awards and Scholarships Committee**
  Assists in the selection and recognition of award and scholarship recipients.

2000–2001 Top Apprentice Award Winners

1	Sheldon Barrett	Lather Interior Systems Mechanic	Calgary	Entresic Construction Ltd.
2	Dwayne Benders	Motorcycle Mechanic	Edson	Walt Healy Motor Cycle
3	Nicholas Blanchette	Ironworker –Metal Building Systems Erector	Edmonton	Clark Builders
4	Maxwell Blazina	Electrician	Calgary	Crown Energy Technologies Inc.
5	Grant Borgel	Electrical Motor Systems Technician	Edmonton	Sturgeon Rewind Ltd.
6	Harold Bowman	Transport Refrigeration Technician	Calgary	Thermo King Western (Calgary) Ltd.
7	George Breitkreuz	Steamfitter –Pipefitter and Gasfitter–2nd Class	Millet	PCL Industrial Constructors Inc.
8	Mark Buwalda	Gasfitter–1st Class	Innisfail	Crossroad's Gas Co-Op Ltd.
9	Terry Carr	Baker	Whitecourt	Whitecourt Garden Market IGA
10	Troy Claridge	Sawfiler	Edson	Sundance Forest Industries Ltd.
11	Debbie Ann Clauss	Cook	Medicine Hat	Tuscany Mediterranean Grill
12	Jonathan Cockerill	Roofer	Sylvan Lake	Cooper Roofing Ltd.
13	Eric Daugaard	Heavy Equipment Technician	Innisfail	West Central Heavy Duty Repairs Ltd.
14	Barry Deacon	Crane and Hoisting Equipment Operator–Mobile Crane	Devon	Sterling Crane, Division of Procrane Inc.
15	Mike Delahunt	Plumber and Gasfitter–2nd Class	Calgary	Petrin Mechanica (Alberta) Ltd.
16	Barry Diakow	Power System Electrician	Medicine Hat	City of Medicine Hat Electric Utility
17	Duane Edlund	Tilesetter	Calgary	Ron Edlund
18	Zoltan Farkas	Recreation Vehicle Service Technician	Calgary	R.V. Lifestyles Inc.
19	Mark Gagne	Sprinkler Systems Installer	Onoway	Grinnell Fire Protection Systems Company
20	Jeff Gerlinger	Carpenter	Drumheller	Steve's Carpentry Ltd.
21	Allan Graves	Parts Technician	Calgary	Bombardier Inc.
22	Keith Hirschhofer	Bricklayer	Calgary	Pockar Masonry Ltd.
23	James Holehouse	Baker	Sherwood Park	Shaw Conference Centre
24	Harvey Kein	Cabinetmaker	Spruce Grove	Artistic Stairs Ltd.
25	Brian Klapatiuk	Auto Body Technician–Collision	Stony Plain	Adams Auto Body Inc.
26	Douglas Kollar	Refrigeration and Air Conditioning Mechanic	Calgary	Telus Communications
27	Ari Korpelainen	Tilesetter	Edmonton	Elevation Tile
28	Paul Kwasnicki	Auto Body Technician –Collision and Refinishing	Lethbridge	Bridge City Chrysler Collision Repair Centre
29	Stefan Ladan	Power Lineman	Edmonton	Epcor

30	Jackie Larsen	Boilermaker	Edmonton	Boilermaker Apprenticeship Administration Agency
31	Mikko Levoskin	Crane and Hoisting Equipment Operator–Wellhead Boom Truck	Medicine Hat	Tucker Wireline Services Canada Inc.
32	Rick Melnyk	Millwright	Grande Prairie	Ideal Precision Machining Ltd.
33	James Neratko	Structural Steel and Plate Fitter	Calgary	Exchanger Industries, Division of Premetalco Inc.
34	Keith Newman	Concrete Finisher	Canmore	Cornerstone Cribbing (1989) Ltd.
35	Lance Osbak	Sheet Metal Worker	Peace River	Fred' s Heating–Division of North Country Mechanical Ltd.
36	John Patterson	Locksmith	Banff	Banff Centre
37	Roger Payment	Communication Electrician –Construction Craft	Edmonton	Telus Communications
38	Joel Paynton	Automotive Service Technician	Drayton Valley	Stetson Motors Ltd.
39	Cory Phillips	Sawfiler	Boyle	Millar Western Industrial Ltd.
40	Lorna Pierson	Hairstylist	Edmonton	Avanti Hair & Body Studio Corporation
41	Roland Podulsky	Water Well Driller	Sherwood Park	S & M Waterwells Ltd
42	Shaun Postma	Floorcovering Installer	Edmonton	Canadian Carpet Brokers
43	Judith Riggan	Insulator	Edmonton	Northern Industrial Insulation Contractors Inc
44	Jennifer Robinson	Landscape Gardener	Calgary	Calgary Zoological Society
45	Steve Roth	Millwright	Forestburg	Atco Power Alberta Power (2000) Ltd.
46	Douglas Savoie	Electronic Technician	Edmonton	Sharp's Audio Visual
47	Blake Simpson	Glazier	Edmonton	Beacon Glass Products Ltd.
48	Roberta St. Goddard	Painter and Decorator	Calgary	S.A.I.T. Operations & Maintenance
49	Chris Taggart	Machinist	Calgary	Aero-Tech Specialty Welding and Fabrication Ltd.
50	Bradley Thorimbert	Welder	Fairview	Dunvegan Fab & Machining
51	William Veilleux	Agricultural Equipment Technician	Bow Island	Green Power Ltd.
52	Joey Verbeek	Crane and Hoisting Equipment Operator–Boom Truck	Calahoo	Joe Verbeek Contracting Ltd.
53	John Vetsch	Instrument Technician	Beaverlodge	Apache Canada Ltd.
54	Frank Villalobos	Appliance Service Technician	Calgary	Castle Appliance Service Ltd.
55	Brent Wilson	Ironworker	Edmonton	Ironworkers Apprenticeship Administration Agency
56	Marcus Wong	Auto Body Technician–Refinishing	Calgary	Concours Auto Body Ltd.

2000–2001 Registered Apprenticeship Program (RAP) Scholarship Winners

1	Nolan Alguire	Heavy Equipment Technician	RAP Scholarship
2	Drew Beattie	Cabinetmaker	RAP Scholarship
3	Laura Bence	Hairstylist	The Optimist Club of Sherwood Park RAP Scholarship
4	Andrew Blarowski	Cabinetmaker	Christian Labour Association RAP Scholarship
5	Aaron Bonertz	Automotive Service Technician	RAP Scholarship
6	Trevor Cake	Motorcycle Mechanic	Allan Askeland RAP Scholarship
7	Tyler Carson	Plumber	Mechanical Contractors Association of Alberta RAP Scholarship
8	Alanna Michelle Carty	Cook	RAP Scholarship
9	Justin Dach	Electrician	RAP Scholarship
10	Adam Dakin	Heavy Equipment Technician	Ironworkers Local 720 and Local 725 RAP Scholarship
11	Scott Dowland	Automotive Service Technician	RAP Scholarship
12	Chaunce Edwards	Heavy Equipment Technician	Alberta-Pacific Forest Industries Inc. RAP Scholarship
13	John Tyler Fry	Heavy Equipment Technician	RAP Scholarship
14	Darren Gelineau	Electrician	Flint Energy Services Ltd. RAP Scholarship
15	Ashley D Gesner	Hairstylist	RAP Scholarship
16	Travis Hallam	Welder	RAP Scholarship
17	Jesse Hope	Welder	International Brotherhood of Boilermakers and the Boilermaker Training Trust Fund RAP Scholarship
18	Brad Hopkins	Agricultural Equipment Technician	NOVA Chemicals Corporation RAP Scholarship
19	Stephen Huska	Sprinkler Systems Installer	Bill and Catharine Watson and Family RAP Scholarship
20	Travis Jensen	Electrician	RAP Scholarship
21	Darcy Jones	Heavy Equipment Technician	RAP Scholarship
22	Tyler Kehlert	Electrician	The Electrical Contractors Association of Alberta RAP Scholarship
23	Charles King	Heavy Equipment Technician	RAP Scholarship
24	Corinna L. Klopstra	Hairstylist	RAP Scholarship
25	Lacie Kushniruk	Hairstylist	RAP Scholarship
26	Tyler Ross Lagasse	Carpenter	RAP Scholarship
27	Brian LaRoque	Carpenter	The Calgary Foundation–Cadmus Fund RAP Scholarship
28	Kirk Low	Carpenter	Merit Contractors Association RAP Scholarship
29	Curtis Lungal	Motorcycle Mechanic	RAP Scholarship
30	Jason Malansky	Electrician	RAP Scholarship
31	David Matheson	Cabinetmaker	RAP Scholarship

32	Sean McDonnell	Electrician	The Electrical Contractors Association of Alberta RAP Scholarship
33	Craig Neilson	Welder	Fluor Constructors Canada Limited RAP Scholarship
34	Jason Neufeld	Carpenter	RAP Scholarship
35	Brad Padlewski	Instrument Technician	RAP Scholarship
36	Russell Polson	Machinist	The Calgary Foundation–Cadmus Fund RAP Scholarship
37	Justin Routhier	Electrician	Delta Catalytic Industrial Services Ltd. RAP Scholarship
38	Cory Salikin	Welder	Kellogg Brown & Root RAP Scholarship
39	Christopher D. Savic	Cabinetmaker	PCL Construction Group Inc. RAP Scholarship
40	Nathan Schley	Carpenter	Maxam Contracting Ltd. RAP Scholarship
41	Carolyn Schulz	Hairstylist	Modern Beauty Supplies RAP Scholarship
42	Lindon Shaw	Welder	RAP Scholarship
43	Clayton Siemens	Machinist	TransCanada PipeLines Limited RAP Scholarship
44	Paxton R. Teske	Crane and Hoisting Equipment Operator	Alberta Building Trades Council/Operator Construction Labour Relations–Alberta RAP Scholarship
45	Vic Truong	Millwright	Shell Canada Limited RAP Scholarship
46	Todd Webber	Crane and Hoisting Equipment Operator	Syncrude Canada Ltd. RAP Scholarship
47	Andrew Weir	Electrician	Construction Labour Relations–Alberta/ Alberta Building Trades Council RAP Scholarship
48	Trevor Wolfe	Automotive Service Technician	RAP Scholarship
49	Ryan Woodward	Carpenter	RAP Scholarship
50	Steven Yent	Automotive Service Technician	Motor Dealers' Association of Alberta RAP Scholarship

Past Award and Scholarship Winners

Employer Award of Excellence

2000	North Region	Risley Manufacturing Ltd.
	South Region	Coram Construction
1999	North region	Territorial Electric Ltd.
	South Region	Scott's Auto Service Ltd.
1998	North Region	Lee's Sheet Metal Ltd.
	South Region	Charlton & Hill Ltd.

Thygesen Scholarship

1999–2000	Tara L. Glieheisen	Baker
	Jennifer A. Robinson	Landscape Gardener
1998–1999	Chris S. Bradbury	Plumber and Gasfitter Second Class
1997–1998	Kenneth J. Armstrong	Bricklayer

STATISTICAL PROFILES: ALBERTA'S APPRENTICESHIP AND INDUSTRY TRAINING SYSTEM

NOTE ON CHANGES TO DATA:

This year the statistical tables and charts have been changed to reflect the actual number of ***people*** involved in the Alberta apprenticeship and industry training system. In previous years, the data reflected the number of registrations, graduations and certificates issued rather than the number of apprentices registered and the number of certified individuals. The distinction is important. The first reflects the paper processed in a given period of time while the other reflects the number of people involved.

In the past, these numbers differed minimally. With the creation of various branches of individual trades and the availability of multiple certifications within one trade, these numbers are increasingly divergent.

Also note that the technical training information has been changed to reflect the *school year* (with the exception of Table 7). In the past, technical training attendance was provided based on the *calendar year* for consistency with other calendar year data, e.g. registrations. The switch to school year data will hopefully provide a more accurate reading of the technical training data.

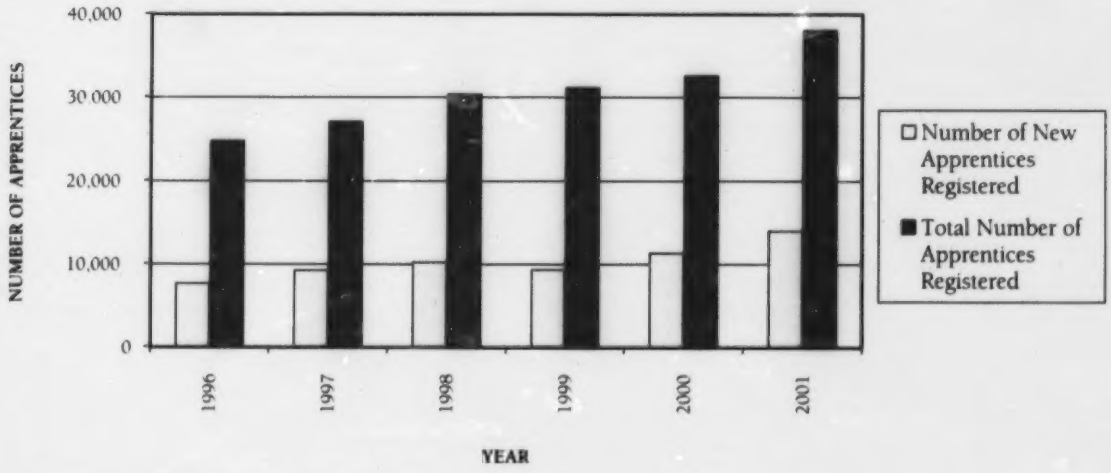
As a result of these changes, the data provided in the following tables and charts will not correspond to the data provided in previous Alberta Apprenticeship and Industry Training Annual Reports.

TABLE 1 **Alberta Apprenticeship and Provincial Labour Force Statistics, 1996 to 2001**

	1996	1997	1998	1999	2000	2001	1996–2001 Change
Total Apprentices Registered (all trades)	24,746	27,041	30,316	31,139	32,547	38,090	53.9%
New Apprentices Registered (all trades)	7,650	9,244	10,234	9,306	11,317	13,994	82.9%
Labour Force (thousands)	1,513.4	1,547.9	1,605.0	1,648.0	1,671.4	1,710.7	13.0%
Employed (thousands)	1,408.4	1,457.9	1,515.4	1,553.3	1,588.2	1,632.1	15.9%
Unemployed (thousands)	105.0	90.0	89.6	94.7	83.2	78.6	-25.1%
Unemployment Rate (%)	6.9%	5.8%	5.6%	5.7%	5.0%	4.6% percentage points	-2.3

Source: Apprenticeship and Industry Training, Alberta Learning, and Alberta Human Resources and Employment

CHART 1 **Number of Apprentices Registered by Year, 1996 to 2001***



Source: Apprenticeship and Industry Training, Alberta Learning
*This graph represents statistics covering calendar years (January to December).

TABLE 2 **Number of Alberta Apprentices Registered and Certified by Trade, 2001***

Trade	[redacted]	New Apprentices Registered During 2001 (Note 1)	[redacted]
Agricultural Equipment Technician	[redacted]	53	[redacted]
Appliance Service Technician	74	29	9
Auto Body Technician	[redacted]	205	[redacted]
Automotive Service Technician	2,392	766	313
Baker	[redacted]	57	[redacted]
Boilermaker	180	81	12
Bricklayer	[redacted]	41	[redacted]
Cabinetmaker	452	129	37
Carpenter	[redacted]	916	[redacted]
Communication Electrician	423	183	35
Concrete Finisher	[redacted]	38	[redacted]
Cook	1,028	404	144
Crane and Hoisting Equipment Operator	[redacted]	705	[redacted]
Electrical Motor Systems Technician	51	18	7
Electrician	[redacted]	1,899	[redacted]
Electronic Technician	58	19	5
Elevator Constructor	[redacted]	13	[redacted]
Floorcovering Installer	53	21	4
Gasfitter	[redacted]	58	[redacted]
Glazier	136	45	11
Hairstylist	[redacted]	806	[redacted]
Heavy Equipment Technician	2,597	851	451
Instrument Technician	[redacted]	559	[redacted]
Insulator	531	161	27
Ironworker	[redacted]	171	[redacted]
Ironworker - Metal Building Systems Erector	89	40	9
Landscape Gardener	[redacted]	61	[redacted]
Lather-Interior Systems Mechanic	106	60	3
Locksmith	[redacted]	16	[redacted]
Machinist	896	334	95
Millwright	[redacted]	484	[redacted]
Motorcycle Mechanic	125	40	9
Outdoor Power Equipment Technician (Note 2)	[redacted]	24	[redacted]
Painter and Decorator	155	58	11
Parts Technician	[redacted]	229	[redacted]
Plumber (Note 3)	2,168	686	150
Power Lineman	[redacted]	87	[redacted]
Power System Electrician	78	36	8
Printing and Graphic Arts Craftsman (Note 4)	[redacted]	0	[redacted]
Recreation Vehicle Service Technician	94	32	26
Refrigeration and Air Conditioning Mechanic	[redacted]	122	[redacted]
Roofer	118	41	9
Sawfiler	[redacted]	3	[redacted]
Sheet Metal Worker	829	260	46
Sprinkler Systems Installer	[redacted]	70	[redacted]
Steamfitter-Pipefitter (Note 3)	1,711	662	100
Structural Steel and Plate Fitter	[redacted]	69	[redacted]
Tilesetter	62	22	3
Transport Refrigeration Technician	[redacted]	18	[redacted]
Water Well Driller	35	19	8
Welder	[redacted]	2,293	[redacted]
TOTAL	**38,090**	**13,994**	**4,361**

Source: Apprenticeship and Industry Training, Alberta Learning
*Apprentices may be registered and certified in more than one trade or branch of a trade within the same year, but are counted here only once.

Note 1: New apprentices registered in 2001, include first-time registrants. Apprentices registered in a second or multiple trades and re-instated apprentices (unless re-instated in the same year) are not included in this table.
Note 2: Outdoor power equipment technician became a designated trade in 2001.
Note 3: Apprentices registered and/or certified in the plumber and steamfitter-pipefitter trades include those who completed the gasfitter (second class) training as part of their apprenticeship.
Note 4: The Alberta Apprenticeship and Industry Training Board, on the advice of the Printing and Graphic Arts Craftsmen Provincial Apprenticeship Committee, has recommended the de-designation of this trade.

TABLE 2 **Number of Alberta Apprentices Registered and Certified by Trade, 2001***

Trade	Total Registered Apprentices on December 31, 2001	New Apprentices Registered During 2001 (Note 1)	Apprentices Certified During 2001
Agricultural Equipment Technician	**87**	33	**32**
Appliance Service Technician	74	29	9
Auto Body Technician	**367**	205	**40**
Automotive Service Technician	2,392	766	313
Baker	**204**	57	**39**
Boilermaker	180	81	12
Bricklayer	**152**	41	**16**
Cabinetmaker	452	129	37
Carpenter	**2,720**	916	**191**
Communication Electrician	423	183	35
Concrete Finisher	**74**	38	**10**
Cook	1,028	404	144
Crane and Hoisting Equipment Operator	**1,215**	705	**138**
Electrical Motor Systems Technician	51	18	7
Electrician	**5,947**	1,809	**524**
Electronic Technician	58	19	5
Elevator Constructor	**127**	13	**4**
Floorcovering Installer	53	21	4
Gasfitter	**166**	58	**43**
Glazier	136	45	11
Hairstylist	**1,776**	806	**408**
Heavy Equipment Technician	2,597	851	451
Instrument Technician	**1,401**	536	**109**
Insulator	531	161	27
Ironworker	**373**	171	**20**
Ironworker - Metal Building Systems Erector	89	40	8
Landscape Gardener	**198**	91	**22**
Lather-Interior Systems Mechanic	106	60	3
Locksmith	**61**	16	**3**
Machinist	896	334	65
Millwright	**1,365**	484	**200**
Motorcycle Mechanic	125	40	9
Outdoor Power Equipment Technician (Note 2)	**22**	24	**0**
Painter and Decorator	155	58	11
Parts Technician	**662**	229	**100**
Plumber (Note 3)	2,168	980	150
Power Lineman	**199**	87	**28**
Power System Electrician	78	30	8
Printing and Graphic Arts Craftsman (Note 4)	**1**	0	**1**
Recreation Vehicle Service Technician	94	32	20
Refrigeration and Air Conditioning Mechanic	**436**	122	**59**
Roofer	118	41	9
Sawfiler	**23**	3	**7**
Sheet Metal Worker	829	260	49
Sprinkler Systems Installer	**233**	70	**12**
Steamfitter-Pipefitter (Note 3)	1,711	662	180
Structural Steel and Plate Fitter	**172**	99	**7**
Tilesetter	62	22	1
Transport Refrigeration Technician	**47**	18	**6**
Water Well Driller	35	19	8
Welder	**5,421**	2,293	**810**
TOTAL	**38,090**	**13,994**	**4,361**

Source: Apprenticeship and Industry Training, Alberta Learning

*Apprentices may be registered and certified in more than one trade or branch of a trade within the same year, but are counted here only once.

Note 1: New apprentices registered in 2001 include first-time registrants. Apprentices registered in a second or multiple trades and re-instated apprentices (those previously cancelled for inactivity) are not included in this table.

Note 2: Outdoor power equipment technician became a designated trade in 2001.

Note 3: Apprentices registered and/or certified in the plumber and steamfitter-pipefitter trades include those who completed the gasfitter-steamfitter training program before de-designation of this trade.

Note 4: The Alberta Apprenticeship and Industry Training Board, on the advice of the Printing and Graphic Arts Provincial Apprenticeship Committee, has recommended the de-designation of this trade.

TABLE 3 Total Number of Apprentices Registered (Totals, Averages and Percentage Changes) by Trade, 1996 to 2001*

TRADE	1996	1997	1998	1999	2000	2001	1996-01 Average	1996-01 % Change
Agricultural Equipment Technician	100	109	133	113	89	87	105	-13%
Appliance Service Technician	90	68	68	78	72	74	75	-18%
Auto Body Technician	543	545	551	553	499	567	493	4%
Automotive Service Technician	2,050	2,179	2,334	2,368	2,278	2,392	2,267	17%
Baker	298	302	282	237	223	204	258	-32%
Boilermaker	113	102	110	120	126	180	125	59%
Bricklayer	60	62	98	121	139	152	105	153%
Cabinetmaker	373	385	401	453	435	452	417	21%
Carpenter	1,742	1,869	2,212	2,218	2,447	2,720	2,201	56%
Communication Electrician	111	118	155	216	301	423	221	281%
Concrete Finisher	76	58	57	61	59	74	64	-3%
Cook	1,205	1,200	1,124	1,039	932	1,028	1,088	-15%
Crane and Hoisting Equipment Operator	644	671	521	600	819	1,215	773	89%
Electrical Motor Systems Technician	52	55	56	55	46	51	53	-2%
Electrician	2,823	3,248	3,925	4,108	5,000	5,947	4,175	111%
Electronic Technician	110	97	81	63	53	58	77	-47%
Elevator Constructor	22	29	39	85	121	127	71	477%
Floorcovering Installer	67	61	58	55	51	53	58	-21%
Gasfitter	206	198	201	185	165	166	187	-19%
Glazier	88	96	91	111	125	136	108	55%
Hairstylist	1,452	1,385	1,389	1,358	1,491	1,776	1,475	22%
Heavy Equipment Technician	1,938	2,250	2,564	2,554	2,442	2,597	2,391	34%
Instrument Technician	898	893	965	1,012	1,049	1,401	1,036	56%
Insulator	234	204	232	249	426	531	313	127%
Ironworker	83	95	126	170	236	373	187	349%
Ironworker - Metal Building Systems Erector	78	82	105	100	70	89	93	14%
Landscape Gardener	295	274	240	224	202	198	239	-33%
Lather-Interior Systems Mechanic	48	45	42	67	66	106	62	121%
Locksmith	93	88	79	74	58	61	76	-34%
Machinist	615	763	942	879	765	896	810	46%
Millwright	957	1,090	1,208	1,241	1,203	1,365	1,177	43%
Motorcycle Mechanic	82	92	109	113	114	125	106	52%
Outdoor Power Equipment Technician *(Note 1)*	N/A	N/A	N/A	N/A	N/A	22	N/A	N/A
Painter and Decorator	160	148	145	144	140	155	149	-3%
Parts Technician	557	604	632	678	622	662	626	19%
Plumber	1,077	1,216	1,413	1,710	1,893	2,168	1,586	101%
Power Lineman	102	129	135	136	156	199	143	95%
Power System Electrician	32	46	58	68	65	78	58	144%
Printing and Graphic Arts Craftsman *(Note 2)*	100	78	50	34	11	1	46	-99%
Recreation Vehicle Service Technician	71	77	108	119	105	94	96	32%
Refrigeration and Air Conditioning Mechanic	354	382	384	399	406	436	394	23%
Roofer	98	79	97	125	113	118	105	20%
Sawfiler	42	38	31	25	28	23	31	-45%
Sheet Metal Worker	552	562	647	700	730	829	670	50%
Sprinkler Systems Installer	93	97	105	136	195	233	143	151%
Steamfitter-Pipefitter	774	866	1,087	1,200	1,359	1,711	1,189	121%
Structural Steel and Plate Fitter	135	166	178	154	130	172	156	27%
Tilesetter	25	21	28	48	62	62	41	148%
Transport Refrigeration Technician	31	40	41	46	41	47	41	52%
Water Well Driller	44	30	35	24	30	35	35	-20%
Welder	2,953	3,740	4,644	4,513	4,359	5,421	4,272	84%
TOTAL	24,746	27,041	30,316	31,139	32,547	38,090	30,647	54%

Source: Apprenticeship and Industry Training, Alberta Learning

* Total number of apprentices registered as of December 31st each year. Apprentices may be registered in more than one trade or branch of a trade within the same year, but are counted here only once.

N/A = Not Applicable. Data does not exist or is equal to zero in one or more of the specified years.

Note 1: Outdoor power equipment technician became a designated trade in 2001.

Note 2: The Alberta Apprenticeship and Industry Training Board, on the advice of the Printing and Graphic Arts Craftsman Provincial Apprenticeship Committee, has recommended the de-designation of this trade. Apprentices are no longer being registered in the trade.

TABLE 3 Total Number of Apprentices Registered (Totals, Averages and Percentage Changes) by Trade, 1996 to 2001*

TRADE	1996	1997	1998	1999	2000	2001	1996-01 Average	1996-01 % Change
Agricultural Equipment Technician	**100**	**109**	**133**	**113**	**89**	**87**	**105**	**-13%**
Appliance Service Technician	90	68	68	78	72	74	75	-18%
Auto Body Technician	**543**	**545**	**551**	**553**	**499**	**567**	**493**	**4%**
Automotive Service Technician	2,050	2,179	2,334	2,368	2,278	2,392	2,267	17%
Baker	**298**	**302**	**282**	**237**	**223**	**204**	**258**	**-32%**
Boilermaker	113	102	110	120	126	180	125	59%
Bricklayer	**60**	**62**	**98**	**121**	**139**	**152**	**105**	**153%**
Cabinetmaker	373	385	401	453	435	452	417	21%
Carpenter	**1,742**	**1,869**	**2,212**	**2,218**	**2,447**	**2,720**	**2,201**	**56%**
Communication Electrician	111	118	155	216	301	423	221	281%
Concrete Finisher	**76**	**58**	**57**	**61**	**59**	**74**	**64**	**-3%**
Cook	1,205	1,200	1,124	1,039	932	1,028	1,088	-15%
Crane and Hoisting Equipment Operator	**644**	**671**	**521**	**600**	**819**	**1,215**	**773**	**89%**
Electrical Motor Systems Technician	52	55	56	55	46	51	53	-2%
Electrician	**2,823**	**3,248**	**3,925**	**4,108**	**5,000**	**5,947**	**4,175**	**111%**
Electronic Technician	110	97	81	63	53	58	77	-47%
Elevator Constructor	**22**	**29**	**39**	**85**	**121**	**127**	**71**	**477%**
Floorcovering Installer	67	61	58	55	51	53	58	-21%
Gasfitter	**206**	**198**	**201**	**185**	**165**	**166**	**187**	**-19%**
Glazier	88	96	91	111	125	136	108	55%
Hairstylist	**1,452**	**1,385**	**1,389**	**1,358**	**1,491**	**1,776**	**1,475**	**22%**
Heavy Equipment Technician	1,938	2,250	2,564	2,554	2,442	2,597	2,391	34%
Instrument Technician	**898**	**893**	**965**	**1,012**	**1,049**	**1,401**	**1,036**	**56%**
Insulator	234	204	232	249	426	531	313	127%
Ironworker	**83**	**95**	**126**	**170**	**236**	**373**	**187**	**349%**
Ironworker - Metal Building Systems Erector	78	82	105	100	70	89	93	14%
Landscape Gardener	**295**	**274**	**240**	**224**	**202**	**198**	**239**	**-33%**
Lather-Interior Systems Mechanic	48	45	42	67	66	106	62	121%
Locksmith	**93**	**88**	**79**	**74**	**58**	**61**	**76**	**-34%**
Machinist	615	763	942	879	765	896	810	46%
Millwright	**957**	**1,090**	**1,208**	**1,241**	**1,203**	**1,365**	**1,177**	**43%**
Motorcycle Mechanic	82	92	109	113	114	125	106	52%
Outdoor Power Equipment Technician *(Note 1)*	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**22**	**N/A**	**N/A**
Painter and Decorator	160	148	145	144	140	155	149	-3%
Parts Technician	**557**	**604**	**632**	**678**	**622**	**662**	**626**	**19%**
Plumber	1,077	1,216	1,413	1,710	1,893	2,168	1,586	101%
Power Lineman	**102**	**129**	**135**	**136**	**156**	**199**	**143**	**95%**
Power System Electrician	32	46	58	68	65	78	58	144%
Printing and Graphic Arts Craftsman *(Note 2)*	**100**	**78**	**50**	**34**	**11**	**1**	**46**	**-99%**
Recreation Vehicle Service Technician	71	77	108	119	105	94	96	32%
Refrigeration and Air Conditioning Mechanic	**354**	**382**	**384**	**399**	**406**	**436**	**394**	**23%**
Roofer	98	79	97	125	113	118	105	20%
Sawfiler	**42**	**38**	**31**	**25**	**28**	**23**	**31**	**-45%**
Sheet Metal Worker	552	562	647	700	730	829	670	50%
Sprinkler Systems Installer	**93**	**97**	**105**	**136**	**195**	**233**	**143**	**151%**
Steamfitter-Pipefitter	774	866	1,087	1,200	1,359	1,711	1,189	121%
Structural Steel and Plate Fitter	**135**	**166**	**178**	**154**	**130**	**172**	**156**	**27%**
Tilesetter	25	21	28	48	62	62	41	148%
Transport Refrigeration Technician	**31**	**40**	**41**	**46**	**41**	**47**	**41**	**52%**
Water Well Driller	44	39	35	24	30	35	35	-20%
Welder	**2,953**	**3,740**	**4,644**	**4,513**	**4,359**	**5,421**	**4,272**	**84%**
TOTAL	**24,746**	**27,041**	**30,316**	**31,139**	**32,547**	**38,090**	**30,647**	**54%**

Source: Apprenticeship and Industry Training, Alberta Learning

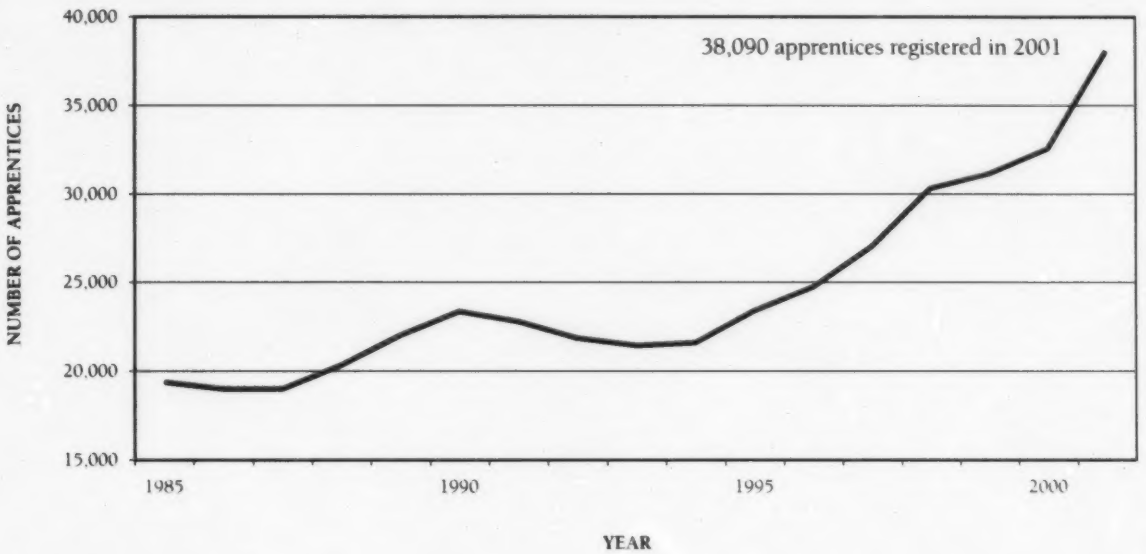
* Total number of apprentices registered as of December 31st each year. Apprentices may be registered in more than one trade or branch of a trade within the same year, but are counted here only once.

N/A = Not Applicable. Data does not exist or is equal to zero in one or more of the specified years.

Note 1: Outdoor power equipment technician became a designated trade in 2001.

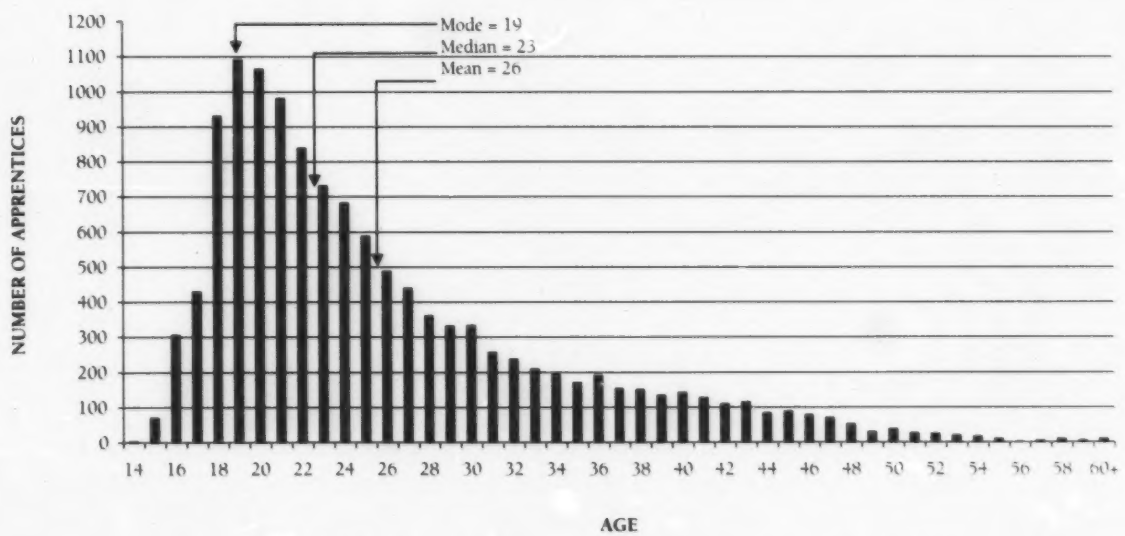
Note 2: The Alberta Apprenticeship and Industry Training Board, on the advice of the Printing and Graphic Arts Craftsman Provincial Apprenticeship Committee, has recommended the de-designation of this trade. Apprentices are no longer being registered in the trade.

CHART 2 Total Number of Apprentices Registered by Year, 1985 to 2001*



Source: Apprenticeship and Industry Training, Alberta Learning
*This graph represents statistics covering calendar years (January to December)

CHART 3 Age of Apprentices Registered for First Time in First Trade, 2001*



Total Number of Apprentices Registering for First Time in First Trade in 2001 = 12,429**

Source: Apprenticeship and Industry Training, Alberta Learning
*Age at date of registration.
**The 12,429 total in the chart above includes only first-time registrations in first trades. This number differs from the total number of new apprentices registered (13,994) as presented in Table 2. The number of new apprentices registered includes those who are returning to do an additional apprenticeship after completing one or more apprenticeships in previous years.
Mean - defined as the sum of the ages of all apprentices divided by the total number of apprentices involved.
Median - defined as the middle age category with an equal number of apprentices younger and older than this group.
Mode - defined as the largest age category or most frequent age of apprentices.

TABLE 4 New Apprentices Registered (Totals, Averages and Percentage Changes) by Trade, 1996 to 2001*

TRADE	1996	1997	1998	1999	2000	2001	1996-01 Average	1996-01 % Change
Agricultural Equipment Technician	45	56	69	30	34	53	48	18%
Appliance Service Technician	20	11	21	26	25	29	22	45%
Auto Body Technician	139	148	145	145	168	205	149	47%
Automotive Service Technician	580	665	666	596	614	766	648	32%
Baker	94	91	78	62	88	57	78	-39%
Boilermaker	49	20	34	33	39	81	43	65%
Bricklayer	11	21	46	50	53	41	37	273%
Cabinetmaker	87	109	105	136	115	129	114	48%
Carpenter	491	587	735	904	827	916	743	87%
Communication Electrician	26	29	55	95	167	183	93	604%
Concrete Finisher	20	17	20	29	17	38	24	90%
Cook	403	364	328	355	349	404	367	0%
Crane and Hoisting Equipment Operator	270	256	257	297	451	705	306	161%
Electrical Motor Systems Technician	17	16	16	12	13	18	15	6%
Electrician	666	1,103	1,288	1,179	1,560	1,899	1,283	185%
Electronic Technician	25	19	16	12	17	19	18	-24%
Elevator Constructor	11	8	16	54	44	13	24	18%
Floorcovering Installer	23	23	16	23	21	21	21	-9%
Gasfitter	85	65	77	50	71	58	68	-32%
Glazier	14	37	23	50	50	45	37	221%
Hairstylist	811	679	653	659	739	806	725	-1%
Heavy Equipment Technician	572	755	847	618	703	851	724	49%
Instrument Technician	185	250	290	264	396	559	324	202%
Insulator	35	57	81	86	248	161	111	360%
Ironworker	26	36	51	76	109	171	82	558%
Ironworker - Metal Building Systems Erector	210	26	47	43	29	40	62	-81%
Landscape Gardener	73	55	52	62	68	61	62	-16%
Lather-Interior Systems Mechanic	12	16	9	33	23	60	26	400%
Locksmith	23	15	13	21	14	16	17	-30%
Machinist	186	245	339	142	198	334	241	80%
Millwright	300	333	365	329	335	484	358	61%
Motorcycle Mechanic	25	37	40	31	48	40	37	60%
Outdoor Power Equipment Technician *(Note 1)*	N/A	N/A	N/A	N/A	N/A	24	N/A	N/A
Painter and Decorator	46	41	46	50	59	58	50	26%
Parts Technician	194	210	206	241	190	229	212	18%
Plumber	278	396	465	559	584	686	495	147%
Power Lineman	23	47	36	40	68	87	50	278%
Power System Electrician	9	20	22	29	23	36	23	300%
Printing and Graphic Arts Craftsman *(Note 2)*	13	23	5	1	5	0	8	-100%
Recreation Vehicle Service Technician	32	49	47	38	26	32	37	0%
Refrigeration and Air Conditioning Mechanic	92	102	84	104	109	122	102	33%
Roofer	21	22	42	48	35	41	35	95%
Sawfiler	20	10	7	4	11	3	9	-85%
Sheet Metal Worker	139	136	185	189	248	260	193	87%
Sprinkler Systems Installer	22	29	34	68	82	70	51	218%
Steamfitter-Pipefitter	218	294	384	338	501	662	400	204%
Structural Steel and Plate Fitter	45	63	48	41	46	69	52	53%
Tilesetter	5	6	9	27	22	22	15	340%
Transport Refrigeration Technician	4	21	10	16	20	18	15	350%
Water Well Driller	17	13	14	9	18	19	15	12%
Welder	938	1,613	1,792	1,002	1,637	2,293	1,546	144%
TOTAL	7,650	9,244	10,234	9,306	11,317	13,994	10,291	83%

Source: Apprenticeship and Industry Training, Alberta Learning
N/A = Not Applicable. Data does not exist or is equal to zero in one or more of the specified years.

*New apprentices include first-time ever registrants registering during each calendar year. Apprentices registered in a second or multiple trades and re-instated apprentices (unless re-instated in the same year) are not included in this table.

Note 1: Outdoor power equipment technician became a designated trade in 2001.
Note 2: The Alberta Apprenticeship and Industry Training Board, on the advice of the Printing and Graphic Arts Craftsman Provincial Apprenticeship Committee, has recommended the de-designation of this trade.

TABLE 5 **Total Number of Individuals Certified, 2001***

TRADE/OCCUPATION	JOURNEYMAN/OCCUPATIONAL CERTIFICATES ISSUED TO COMPLETED APPRENTICES AND TRAINEES	[redacted]	QUALIFICATION CERTIFICATES (*Note 1*)	[redacted]	EQUIVALENCY DOCUMENTS (*Note 3*)
Agricultural Equipment Technician	32	[redacted]	2	[redacted]	0
Appliance Service Technician	9	6	3	3	0
Auto Body Technician**	40	[redacted]	17	[redacted]	2
Automotive Service Technician	313	291	33	34	14
Baker	39	[redacted]	4	[redacted]	0
Boilermaker	12	12	0	0	1
Bricklayer	16	[redacted]	0	[redacted]	0
Cabinetmaker	37	37	1	1	0
Carpenter	191	[redacted]	2	[redacted]	1
Communication Electrician	35	N/A	2	N/A	0
Concrete Finisher	10	[redacted]	0	[redacted]	0
Cook	144	140	9	9	1
Crane and Hoisting Equipment Operator**	138	[redacted]	110	[redacted]	5
Electrical Motor Systems Technician	7	7	1	0	0
Electrician	524	[redacted]	43	[redacted]	17
Electronic Technician	5	2	4	4	0
Elevator Constructor	4	[redacted]	2	[redacted]	1
Floorcovering Installer	4	4	0	0	0
Gasfitter	43	[redacted]	7	[redacted]	7
Glazier	11	10	0	0	0
Hairstylist	408	[redacted]	13	[redacted]	25
Heavy Equipment Technician**	451	379	39	40	16
Instrument Technician	109	[redacted]	1	[redacted]	0
Insulator	27	17	2	2	0
Ironworker	20	[redacted]	3	[redacted]	3
Ironworker - Metal Building Systems Erector	9	0	2	0	0
Landscape Gardener	22	[redacted]	0	[redacted]	0
Lather-Interior Systems Mechanic	3	3	0	0	0
Locksmith	3	[redacted]	1	[redacted]	0
Machinist	95	93	1	0	0
Millwright	200	[redacted]	21	[redacted]	5
Motorcycle Mechanic	9	10	5	7	1
Outdoor Power Equipment Technician *(Note 4)*	0	[redacted]	4	[redacted]	0
Painter and Decorator	11	11	18	21	3

TABLE 4 New Apprentices Registered (Totals, Averages and Percentage Changes) by Trade, 1996 to 2001*

TRADE	1996	1997	1998	1999	2000	2001	1996-01 Average	1996-01 % Change
Agricultural Equipment Technician	45	56	69	30	34	53	48	18%
Appliance Service Technician	20	11	21	26	25	29	22	45%
Auto Body Technician	139	148	145	145	168	205	149	47%
Automotive Service Technician	580	665	666	596	614	766	648	32%
Baker	94	91	78	62	88	57	78	-39%
Boilermaker	49	20	34	33	39	81	43	65%
Bricklayer	11	21	46	50	53	41	37	273%
Cabinetmaker	87	109	105	136	115	129	114	48%
Carpenter	491	587	735	904	827	916	743	87%
Communication Electrician	26	29	55	95	167	183	93	604%
Concrete Finisher	20	17	20	29	17	38	24	90%
Cook	403	364	328	355	349	404	367	0%
Crane and Hoisting Equipment Operator	270	256	257	297	451	705	306	161%
Electrical Motor Systems Technician	17	16	16	12	13	18	15	6%
Electrician	666	1,103	1,288	1,179	1,560	1,899	1,283	185%
Electronic Technician	25	19	16	12	17	19	18	-24%
Elevator Constructor	11	8	16	54	44	13	24	18%
Floorcovering Installer	23	23	16	23	21	21	21	-9%
Gasfitter	85	65	77	50	71	58	68	-32%
Glazier	14	37	23	50	50	45	37	221%
Hairstylist	811	679	653	659	739	806	725	-1%
Heavy Equipment Technician	572	755	847	618	703	851	724	49%
Instrument Technician	185	250	290	264	396	559	324	202%
Insulator	35	57	81	86	248	161	111	360%
Ironworker	26	36	51	76	109	171	82	558%
Ironworker - Metal Building Systems Erector	210	26	47	43	29	40	62	-81%
Landscape Gardener	73	55	52	62	68	61	62	-16%
Lather-Interior Systems Mechanic	12	16	9	33	23	60	26	400%
Locksmith	23	15	13	21	14	16	17	-30%
Machinist	186	245	339	142	198	334	241	80%
Millwright	300	333	365	329	335	484	358	61%
Motorcycle Mechanic	25	37	40	31	48	40	37	60%
Outdoor Power Equipment Technician *(Note 1)*	N/A	N/A	N/A	N/A	N/A	24	N/A	N/A
Painter and Decorator	46	41	46	50	59	58	50	26%
Parts Technician	194	210	206	241	190	229	212	18%
Plumber	278	396	465	559	584	686	495	147%
Power Lineman	23	47	36	40	68	87	50	278%
Power System Electrician	9	20	22	29	23	36	23	300%
Printing and Graphic Arts Craftsman *(Note 2)*	13	23	5	1	5	0	8	-100%
Recreation Vehicle Service Technician	32	49	47	38	26	32	37	0%
Refrigeration and Air Conditioning Mechanic	92	102	84	104	109	122	102	33%
Roofer	21	22	42	48	35	41	35	95%
Sawfiler	20	10	7	4	11	3	9	-85%
Sheet Metal Worker	139	136	185	189	248	260	193	87%
Sprinkler Systems Installer	22	29	34	68	82	70	51	218%
Steamfitter-Pipefitter	218	294	384	338	501	662	400	204%
Structural Steel and Plate Fitter	45	63	48	41	46	69	52	53%
Tilesetter	5	6	9	27	22	22	15	340%
Transport Refrigeration Technician	4	21	10	16	20	18	15	350%
Water Well Driller	17	13	14	9	18	19	15	12%
Welder	938	1,613	1,792	1,002	1,637	2,293	1,546	144%
TOTAL	7,650	9,244	10,234	9,306	11,317	13,994	10,291	83%

Source: Apprenticeship and Industry Training, Alberta Learning
N/A = Not Applicable. Data does not exist or is equal to zero in one or more of the specified years

*New apprentices include first-time ever registrants registering during each calendar year. Apprentices registered in a second or multiple trades and re-instated apprentices (unless re-instated in the same year) are not included in this table

Note 1: Outdoor power equipment technician became a designated trade in 2001
Note 2: The Alberta Apprenticeship and Industry Training Board, on the advice of the Printing and Graphic Arts Craftsman Provincial Apprenticeship Committee, has recommended the de-designation of this trade

TABLE 5 **Total Number of Individuals Certified, 2001***

TRADE/OCCUPATION	JOURNEYMAN/OCCUPATIONAL CERTIFICATES ISSUED TO COMPLETED APPRENTICES AND TRAINEES	[redacted]	QUALIFICATION CERTIFICATES (*Note 1*)	[redacted]	EQUIVALENCY DOCUMENTS (*Note 3*)
Agricultural Equipment Technician	32	[redacted]	2	[redacted]	0
Appliance Service Technician	9	6	3	3	0
Auto Body Technician**	40	[redacted]	17	[redacted]	2
Automotive Service Technician	313	291	33	34	14
Baker	39	[redacted]	4	[redacted]	0
Boilermaker	12	12	0	0	1
Bricklayer	16	[redacted]	0	[redacted]	0
Cabinetmaker	37	37	1	1	0
Carpenter	191	[redacted]	2	[redacted]	1
Communication Electrician	35	N/A	2	N/A	0
Concrete Finisher	10	[redacted]	0	[redacted]	0
Cook	144	140	9	9	1
Crane and Hoisting Equipment Operator**	138	[redacted]	110	[redacted]	5
Electrical Motor Systems Technician	7	7	1	0	0
Electrician	524	[redacted]	43	[redacted]	17
Electronic Technician	5	[redacted]	4	4	0
Elevator Constructor	4	[redacted]	2	[redacted]	1
Floorcovering Installer	4	[redacted]	0	0	0
Gasfitter	43	[redacted]	7	[redacted]	7
Glazier	11	10	0	0	0
Hairstylist	408	[redacted]	13	[redacted]	25
Heavy Equipment Technician**	451	379	39	40	16
Instrument Technician	109	[redacted]	1	[redacted]	0
Insulator	27	17	2	2	0
Ironworker	20	[redacted]	3	[redacted]	3
Ironworker - Metal Building Systems Erector	9	0	2	0	0
Landscape Gardener	22	[redacted]	0	[redacted]	0
Lather-Interior Systems Mechanic	3	3	0	0	0
Locksmith	3	[redacted]	1	[redacted]	0
Machinist	95	93	1	0	0
Millwright	200	[redacted]	21	[redacted]	5
Motorcycle Mechanic	9	10	5	7	1
Outdoor Power Equipment Technician (Note 4)	0	[redacted]	4	[redacted]	0
Painter and Decorator	11	11	18	21	3

TABLE 5 CONTINUED...

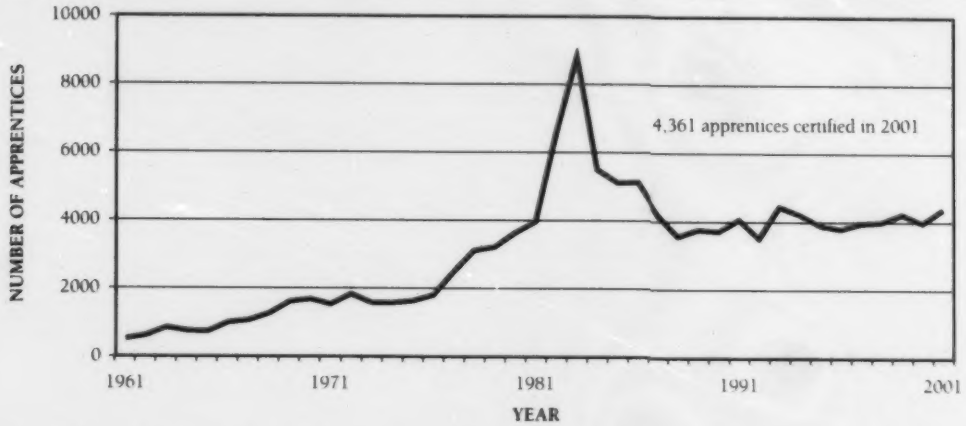
TRADE/OCCUPATION	JOURNEYMAN/OCCUPATIONAL CERTIFICATES ISSUED TO COMPLETED APPRENTICES AND TRAINEES	[redacted]	QUALIFICATION CERTIFICATES (*Note 1*)	[redacted]	EQUIVALENCY DOCUMENTS (*Note 3*)
Parts Technician	100	[redacted]	6	[redacted]	0
Plumber	150	141	1	8	8
Power Lineman	28	[redacted]	5	[redacted]	0
Power System Electrician	8	N/A	0	N/A	3
Printing and Graphic Arts Craftsman (Note 5)	1	[redacted]	1	[redacted]	0
Recreation Vehicle Service Technician	26	23	0	2	0
Refrigeration and Air Conditioning Mechanic	59	[redacted]	1	[redacted]	0
Roofer	9	9	0	0	0
Sawfiler	7	[redacted]	0	[redacted]	0
Sheet Metal Worker	46	39	1	2	1
Sprinkler Systems Installer	12	[redacted]	1	[redacted]	1
Steamfitter-Pipefitter	100	94	15	22	8
Structural Steel and Plate Fitter	7	[redacted]	1	[redacted]	2
Tilesetter	3	0	0	0	0
Transport Refrigeration Technician	6	[redacted]	0	[redacted]	0
Water Well Driller	8	N/A	1	N/A	0
Welder	810	[redacted]	45	[redacted]	22
Total - Journeyman	**4,361**	**3,607**	**428**	**395**	**147**
Construction Craft Labourer	134	[redacted]	7	[redacted]	N/A
Gas Utility Operator	10	N/A	N/A	N/A	N/A
Plasterer	1	[redacted]	N/A	[redacted]	N/A
Warehousing	11	N/A	N/A	N/A	N/A
Total - Occupations	**156**	[redacted]	**7**	[redacted]	**N/A**
TOTAL	**4,517**	**3,607**	**435**	**395**	**147**

Source: Apprenticeship and Industry Training, Alberta Learning
N/A = Not Applicable

*Individuals issued more than one certificate in 2001 are counted here only once. **Indicates that some, not all, branches of this trade have a Red Seal designation.

Note 1: The Qualification Certificate Program provides an assessment of prior work experience, knowledge and skills.
Note 2: 395 people obtained an Interprovincial Standards Red Seal in 2001. These individuals achieved journeyman status through certification only (i.e. without completion of an apprenticeship) or passed the interprovincial examination in Alberta rather than in their originating jurisdiction.
Note 3: 147 people obtained an Equivalency Document in 2001. Alberta Equivalency Documents are issued to recognize a certificate or document as being equivalent to a trade certificate granted under the *Apprenticeship and Industry Training Act* when the skills and knowledge on which that certificate or document is based have been deemed to be equivalent to those of an Alberta certified journeyman in that trade (e.g., individuals having completed an apprenticeship program in another jurisdiction).
Note 4: Outdoor power equipment technician became a designated trade in 2001.
Note 5: The Alberta Apprenticeship and Industry Training Board, on advice of the Printing and Graphic Arts Craftsman Provincial Apprenticeship Committee, has recommended the de-designation of this trade.

CHART 4 Number of Apprentices Certified, 1961 to 2001*



Source: Apprenticeship and Industry Training, Alberta Learning
*This graph represent statistics covering calendar years (January to December)

Note: In 1982, the Apprenticeship and Trade Certification branch of Alberta Manpower assumed the responsibility of certifying electricians, previously performed by the Electrical Protection branch of Alberta Labour, resulting in a sharp increase in trade certifications for that and the following years

TABLE 6 Technical Training Attendance by Institution and School Year*, 1997/98 to 2001/02

	1997/98	1998/99	1999/2000	2000/01	2001/02*
Delmar *(Note 1)*	78	65	89	93	125
Fairview College	665	710	671	667	770
Keyano College	391	406	396	394	475
Lakeland College	509	610	542	584	675
Lethbridge Community College	506	503	590	625	689
Marvel *(Note 1)*	54	57	54	73	87
Medicine Hat	255	271	249	270	297
Northern Alberta Institute of Technology	6,278	6,785	6,974	7,114	8,010
Olds College	254	226	220	200	203
Portage College	0	0	0	0	47
Red Deer College	1,020	1,164	1,322	1,450	1,690
Southern Alberta Institute of Technology	4,042	4,329	4,447	4,706	5,090
ATCO Electric *(Note 2)*	0	0	0	5	14
British Columbia Institute of Technology *(Note 3)*	32	27	22	20	16
Grande Cache Institution	6	0	0	1	7
Petroleum Industry Training Service *(Note 4)*	0	0	2	80	40
Tilesetter Joint Conference Board, B.C. *(Note 5)*	2	6	2	5	1
Utilicorp Networks Canada *(Note 6)*	3	14	0	0	9
TOTAL	**14,095**	**15,173**	**15,580**	**16,287**	**18,245**

Source: Apprenticeship and Industry Training, Alberta Learning
*These statistics cover the school year from August 1 to July 31, with the exception of the 2001/2002 school year. The data for this year is the projected number, as of March 31, 2002, of apprentices registered in technical training for 2001/2002.
Note 1: The Delmar and Marvel schools train hairstylists. The hairstylist trade has a two-year apprenticeship program.
Note 2: ATCO Electric is accredited to provide technical training for its power lineman apprentices.
Note 3: British Columbia Institute of Technology provides sawfiler training.
Note 4: Petroleum Industry Training Service trains only crane and hoisting equipment operator–Wellhead Boom Truck, which is a one-year apprenticeship program.
Note 5: Tilesetter Joint Conference Board trains only Tilesetters, which is a three-year apprenticeship program. Alberta Tilesetter apprentices are provided the option of attending technical training in B.C. when there are not sufficient numbers to offer a class in Alberta.
Note 6: Utilicorp Networks Canada (previously Trans Alta Utilities) was accredited to provide technical training for its power lineman apprentices.

TABLE 5 CONTINUED...

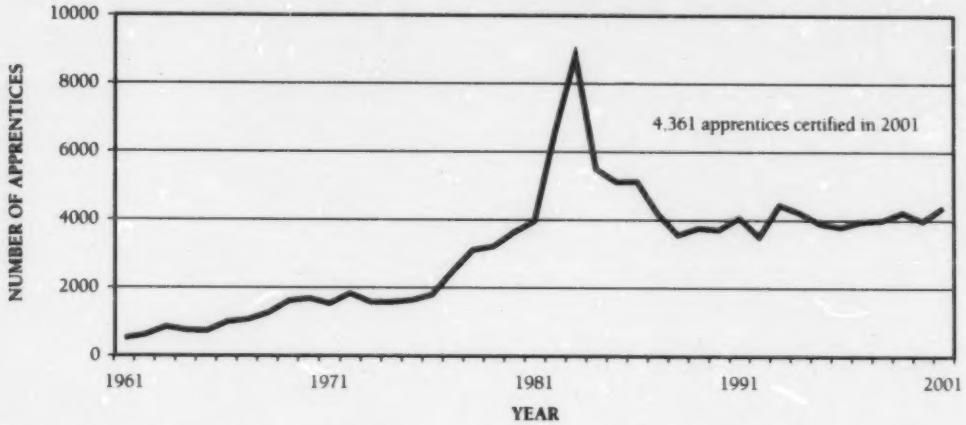
TRADE/OCCUPATION	JOURNEYMAN/OCCUPATIONAL CERTIFICATES ISSUED TO COMPLETED APPRENTICES AND TRAINEES	[redacted]	QUALIFICATION CERTIFICATES (*Note 1*)	[redacted]	EQUIVALENCY DOCUMENTS (*Note 3*)
Parts Technician	100	[redacted]	6	[redacted]	0
Plumber	**150**	**141**	**1**	**8**	**8**
Power Lineman	28	[redacted]	5	[redacted]	0
Power System Electrician	**8**	**N/A**	**0**	**N/A**	**3**
Printing and Graphic Arts Craftsman (Note 5)	1	[redacted]	1	[redacted]	0
Recreation Vehicle Service Technician	**26**	**23**	**0**	**2**	**0**
Refrigeration and Air Conditioning Mechanic	59	[redacted]	1	[redacted]	0
Roofer	**9**	**9**	**0**	**0**	**0**
Sawfiler	7	[redacted]	0	[redacted]	0
Sheet Metal Worker	**46**	**39**	**1**	**2**	**1**
Sprinkler Systems Installer	12	[redacted]	1	[redacted]	1
Steamfitter-Pipefitter	**100**	**94**	**15**	**22**	**8**
Structural Steel and Plate Fitter	7	[redacted]	1	[redacted]	2
Tilesetter	**3**	**0**	**0**	**0**	**0**
Transport Refrigeration Technician	6	[redacted]	0	[redacted]	0
Water Well Driller	**8**	**N/A**	**1**	**N/A**	**0**
Welder	810	[redacted]	45	[redacted]	22
Total - Journeyman	**4,361**	**3,607**	**428**	**395**	**147**
Construction Craft Labourer	134	[redacted]	7	[redacted]	N/A
Gas Utility Operator	**10**	**N/A**	**N/A**	**N/A**	**N/A**
Plasterer	1	[redacted]	N/A	[redacted]	N/A
Warehousing	**11**	**N/A**	**N/A**	**N/A**	**N/A**
Total - Occupations	**156**	[redacted]	**7**	[redacted]	**N/A**
TOTAL	**4,517**	**3,607**	**435**	**395**	**147**

Source: Apprenticeship and Industry Training, Alberta Learning
N/A = Not Applicable

*Individuals issued more than one certificate in 2001 are counted here only once. **Indicates that some, not all, branches of this trade have a Red Seal designation.

Note 1: The Qualification Certificate Program provides an assessment of prior work experience, knowledge and skills.
Note 2: 395 people obtained an Interprovincial Standards Red Seal in 2001. These individuals achieved journeyman status through certification only (i.e. without completion of an apprenticeship) or passed the interprovincial examination in Alberta rather than in their originating jurisdiction.
Note 3: 147 people obtained an Equivalency Document in 2001. Alberta Equivalency Documents are issued to recognize a certificate or document as being equivalent to a trade certificate granted under the *Apprenticeship and Industry Training Act* when the skills and knowledge on which that certificate or document is based have been deemed to be equivalent to those of an Alberta certified journeyman in that trade (e.g., individuals having completed an apprenticeship program in another jurisdiction).
Note 4: Outdoor power equipment technician became a designated trade in 2001.
Note 5: The Alberta Apprenticeship and Industry Training Board, on advice of the Printing and Graphic Arts Craftsman Provincial Apprenticeship Committee, has recommended the de-designation of this trade.

CHART 4 Number of Apprentices Certified, 1961 to 2001*



Source: Apprenticeship and Industry Training, Alberta Learning
*This graph represent statistics covering calendar years (January to December).

Note: In 1982, the Apprenticeship and Trade Certification branch of Alberta Manpower assumed the responsibility of certifying electricians, previously performed by the Electrical Protection branch of Alberta Labour, resulting in a sharp increase in trade certifications for that and the following years.

TABLE 6 Technical Training Attendance by Institution and School Year*, 1997/98 to 2001/02

	1997/98	1998/99	1999/2000	2000/01	2001/02*
Delmar *(Note 1)*	78	65	89	93	125
Fairview College	665	710	671	667	770
Keyano College	391	406	396	394	475
Lakeland College	509	610	542	584	675
Lethbridge Community College	506	503	590	625	689
Marvel *(Note 1)*	54	57	54	73	87
Medicine Hat	255	271	249	270	297
Northern Alberta Institute of Technology	6,278	6,785	6,974	7,114	8,010
Olds College	254	226	220	200	203
Portage College	0	0	0	0	47
Red Deer College	1,020	1,164	1,322	1,450	1,690
Southern Alberta Institute of Technology	4,042	4,329	4,447	4,706	5,090
ATCO Electric *(Note 2)*	0	0	0	5	14
British Columbia Institute of Technology *(Note 3)*	32	27	22	20	16
Grande Cache Institution	6	0	0	1	7
Petroleum Industry Training Service *(Note 4)*	0	0	2	80	40
Tilesetter Joint Conference Board, B.C. *(Note 5)*	2	6	2	5	1
Utilicorp Networks Canada *(Note 6)*	3	14	0	0	9
TOTAL	**14,095**	**15,173**	**15,580**	**16,287**	**18,243**

Source: Apprenticeship and Industry Training, Alberta Learning
*These statistics cover the school year from August 1 to July 31, with the exception of the 2001/2002 school year. The data for this year is the projected number, as of March 31, 2002, of apprentices registered in technical training for 2001/2002.
Note 1: The Delmar and Marvel schools train hairstylists. The hairstylist trade has a two-year apprenticeship program.
Note 2: ATCO Electric is accredited to provide technical training for its power lineman apprentices.
Note 3: British Columbia Institute of Technology provides sawfiler training.
Note 4: Petroleum Industry Training Service trains only crane and hoisting equipment operator–Wellhead Boom Truck, which is a one-year apprenticeship program.
Note 5: Tilesetter Joint Conference Board trains only Tilesetters, which is a three-year apprenticeship program. Alberta Tilesetter apprentices are provided the option of attending technical training in B.C. when there are not sufficient numbers to offer a class in Alberta.
Note 6: Utilicorp Networks Canada (previously Trans Alta Utilities) was accredited to provide technical training for its power lineman apprentices.

TABLE 7 Number of Apprentices Registered, Certified and Attending Technical Training by Apprenticeship and Industry Training Office Locations, 2001*

	Total Apprentices Registered	New Apprentices Registered	Apprentices Certified	Technical Training Attendance**
Calgary	10,094	3,379	1,154	4,627
Lethbridge	1,469	433	188	720
Medicine Hat	1,122	441	167	554
Red Deer	3,097	1,168	437	1,553
South Region Total	**15,782**	**5,421**	**1,946**	**7,454**
Bonnyville	912	369	97	406
Edmonton	14,534	5,446	1,550	6,159
Fort McMurray	2,251	989	169	679
Grande Prairie	1,454	642	192	669
Hinton	683	231	82	317
Peace River	635	203	110	319
Slave Lake	508	155	56	208
Vermilion	800	335	132	440
North Region Total	**21,777**	**8,371**	**2,388**	**9,197**
SPECIAL NEEDS	76	12	13	47
INTERPROVINCIAL—Training Only *(Note 1)*	385	137	2	235
INTERPROVINCIAL/INTERNATIONAL—Training and Certification *(Note 2)*	70	55	12	29
Other Regions Total	**531**	**204**	**27**	**311**
TOTAL	**38,090**	**13,996**	**4,361**	**16,962**

Source: Apprenticeship and Industry Training, Alberta Learning

*This table represents statistics covering the January to December 2001 calendar year. Technical training in the previous table is reported as school year. For this table only, the technical training statistics cover the calendar year for comparability within this table.
**Attendance reflects the number of technical training seats occupied.

Note 1: Alberta provides training for apprentices from other provinces and the territories where the trade is designated but the jurisdictions are unable to provide technical training due to small apprentice registration numbers. Alberta does not issue these individuals a certificate. They are not counted in Table 2 under Apprentices Certified.
Note 2: Alberta registers apprentices and provides technical training to persons from jurisdictions where no program exists. Alberta issues a certificate upon completion of the program.

TABLE 8 **Industry Committee Meetings by Trade/Occupation, 2001**

TRADE/OCCUPATION	Provincial Apprenticeship Committees/Occupational Committees	[redacted]	Totals Provincial Apprenticeship Committees	[redacted]	Total All Committees
Agricultural Equipment Technician	1	[redacted]	3	[redacted]	3
Appliance Service Technician	0	1	1	0	1
Auto Body Technician	4	[redacted]	6	[redacted]	6
Automotive Service Technician	1	5	6	9	15
Baker	0	[redacted]	3	[redacted]	3
Boilermaker	0	3	3	N/A	3
Bricklayer	1	[redacted]	3	[redacted]	3
Cabinetmaker	0	4	4	2	6
Carpenter	0	[redacted]	4	[redacted]	7
Communication Electrician	1	4	5	1	6
Concrete Finisher	0	[redacted]	3	[redacted]	3
Cook	0	1	1	1	2
Crane and Hoisting Equipment Operator	1	[redacted]	11	[redacted]	11
Electrical Motor Systems Technician	0	1	1	1	2
Electrician	0	[redacted]	4	[redacted]	10
Electronic Technician	1	5	6	1	7
Elevator Constructor	0	[redacted]	1	[redacted]	1
Floorcovering Installer	0	2	2	N/A	2
Gasfitter	0	[redacted]	6	[redacted]	6
Glazier	1	3	4	0	4
Hairstylist	1	[redacted]	5	[redacted]	9
Heavy Equipment Technician	2	3	5	4	9
Instrument Technician	0	[redacted]	6	[redacted]	7
Insulator	0	1	1	N/A	1
Ironworker	1	[redacted]	3	[redacted]	3
Landscape Gardener	0	1	1	0	1
Lather-Interior Systems Mechanic	1	[redacted]	4	[redacted]	4
Locksmith	1	2	3	1	4
Machinist	0	[redacted]	1	[redacted]	2
Millwright	0	2	2	1	3
Motorcycle Mechanic	1	[redacted]	3	[redacted]	3
Outdoor Power Equipment Technician	3	5	8	0	8
Painter and Decorator	0	[redacted]	4	[redacted]	4
Parts Technician	0	2	2	3	5
Plumber	1	[redacted]	4	[redacted]	4
Power Lineman	1	1	2	0	2
Power System Electrician	0	[redacted]	1	[redacted]	1
Recreation Vehicle Service Technician	0	2	2	3	5
Refrigeration and Air Conditioning Mechanic	1	[redacted]	2	[redacted]	4
Roofer	1	4	5	0	5
Sawfiler	0	[redacted]	1	[redacted]	1
Sheet Metal Worker	1	5	6	4	10
Sprinkler Systems Installer	0	[redacted]	3	[redacted]	3
Steamfitter- Pipefitter	1	7	8	1	9
Structural Steel and Plate Fitter	1	[redacted]	6	[redacted]	6
Tilesetter	1	2	3	0	3
Tool and Die Maker	1	[redacted]	6	[redacted]	6
Transport Refrigeration Technician	1	2	3	N/A	3
Water Well Driller	1	[redacted]	4	[redacted]	4
Welder	1	2	3	5	8
Total All Trades	**33**	**151**	**184**	**54**	**238**

TABLE 7 Number of Apprentices Registered, Certified and Attending Technical Training by Apprenticeship and Industry Training Office Locations, 2001*

	Total Apprentices Registered	New Apprentices Registered	Apprentices Certified	Technical Training Attendance**
Calgary	10,094	3,379	1,154	4,627
Lethbridge	1,469	433	188	720
Medicine Hat	1,122	441	167	554
Red Deer	3,097	1,168	437	1,553
South Region Total	**15,782**	**5,421**	**1,946**	**7,454**
Bonnyville	912	369	97	406
Edmonton	14,534	5,446	1,550	6,159
Fort McMurray	2,251	989	169	679
Grande Prairie	1,454	642	192	669
Hinton	683	231	82	317
Peace River	635	203	110	319
Slave Lake	508	155	56	208
Vermilion	800	336	132	440
North Region Total	**21,777**	**8,371**	**2,388**	**9,197**
SPECIAL NEEDS	76	12	13	47
INTERPROVINCIAL—Training Only *(Note 1)*	385	137	2	235
INTERPROVINCIAL/INTERNATIONAL—Training and Certification *(Note 2)*	70	55	12	29
Other Regions Total	**531**	**204**	**27**	**311**
TOTAL	**38,090**	**13,996**	**4,361**	**16,962**

Source: Apprenticeship and Industry Training, Alberta Learning

*This table represents statistics covering the January to December 2001 calendar year. Technical training in the previous table is reported as school year. For this table only, the technical training statistics cover the calendar year for comparability within this table.
**Attendance reflects the number of technical training seats occupied.

Note 1: Alberta provides training for apprentices from other provinces and the territories where the trade is designated but the jurisdictions are unable to provide technical training due to small apprentice registration numbers. Alberta does not issue these individuals a certificate. They are not counted in Table 2 under Apprentices Certified.
Note 2: Alberta registers apprentices and provides technical training to persons from jurisdictions where no program exists. Alberta issues a certificate upon completion of the program.

TABLE 8 **Industry Committee Meetings by Trade/Occupation, 2001**

TRADE/OCCUPATION	Provincial Apprenticeship Committees/Occupational Committees	[illegible]	Totals Provincial Apprenticeship Committees	[illegible]	Total All Committees
Agricultural Equipment Technician	1	[illegible]	3	[illegible]	[illegible]
Appliance Service Technician	0	1	1	0	1
Auto Body Technician	4	[illegible]	6	[illegible]	[illegible]
Automotive Service Technician	1	5	6	9	15
Baker	0	[illegible]	3	[illegible]	[illegible]
Boilermaker	0	3	3	N/A	3
Bricklayer	1	[illegible]	3	[illegible]	[illegible]
Cabinetmaker	0	4	4	2	6
Carpenter	0	[illegible]	4	[illegible]	[illegible]
Communication Electrician	1	4	5	1	6
Concrete Finisher	0	[illegible]	3	[illegible]	[illegible]
Cook	0	1	1	1	2
Crane and Hoisting Equipment Operator	1	[illegible]	11	[illegible]	11
Electrical Motor Systems Technician	0	1	1	1	2
Electrician	0	[illegible]	4	[illegible]	10
Electronic Technician	1	5	6	1	7
Elevator Constructor	0	[illegible]	1	[illegible]	1
Floorcovering Installer	0	2	2	N/A	2
Gasfitter	0	[illegible]	6	[illegible]	[illegible]
Glazier	1	3	4	0	4
Hairstylist	1	[illegible]	5	[illegible]	[illegible]
Heavy Equipment Technician	2	3	5	4	9
Instrument Technician	0	[illegible]	6	[illegible]	[illegible]
Insulator	0	1	1	N/A	1
Ironworker	1	[illegible]	3	[illegible]	[illegible]
Landscape Gardener	0	1	1	0	1
Lather-Interior Systems Mechanic	1	[illegible]	4	[illegible]	[illegible]
Locksmith	1	2	3	1	4
Machinist	0	[illegible]	1	[illegible]	[illegible]
Millwright	0	2	2	1	3
Motorcycle Mechanic	1	[illegible]	3	[illegible]	[illegible]
Outdoor Power Equipment Technician	3	5	8	0	8
Painter and Decorator	0	[illegible]	4	[illegible]	[illegible]
Parts Technician	0	2	2	3	5
Plumber	1	[illegible]	4	[illegible]	[illegible]
Power Lineman	1	1	2	0	2
Power System Electrician	0	[illegible]	1	[illegible]	[illegible]
Recreation Vehicle Service Technician	0	2	2	3	5
Refrigeration and Air Conditioning Mechanic	1	[illegible]	2	[illegible]	[illegible]
Roofer	1	4	5	0	5
Sawfiler	0	[illegible]	1	[illegible]	[illegible]
Sheet Metal Worker	1	5	6	4	10
Sprinkler Systems Installer	0	[illegible]	3	[illegible]	[illegible]
Steamfitter- Pipefitter	1	7	8	1	9
Structural Steel and Plate Fitter	1	[illegible]	6	[illegible]	[illegible]
Tilesetter	1	2	3	0	3
Tool and Die Maker	1	[illegible]	6	[illegible]	[illegible]
Transport Refrigeration Technician	1	2	3	N/A	3
Water Well Driller	1	[illegible]	4	[illegible]	[illegible]
Welder	1	2	3	5	8
Total All Trades	**33**	**151**	**184**	**54**	**238**

TABLE 8 CONTINUED...

TRADE/OCCUPATION	Provincial Apprenticeship Committees/Occupational Committees	[redacted]	Totals Provincial Apprenticeship Committees	[redacted]	Total All Committees
Construction Craft Labourer Occupation	1	[redacted]	2	[redacted]	2
Gas Utility Operator Occupation	1	2	3	N/A	3
Plasterer Occupation	1	[redacted]	1	[redacted]	1
Steel Detailer (PC)	1	0	1	N/A	1
Warehousing Occupation	2	[redacted]	4	[redacted]	4
Total All Occupations	**6**	**5**	**11**	**N/A**	**11**
Total All Trades and Occupations	**45**	**161**	**206** *(Note 1)*	**54**	**260**

Source: Apprenticeship and Industry Training, Alberta Learning

Note 1: Some of the Provincial Apprenticeship Sub-Committee meetings were joint meetings, therefore, they appear for each trade but are only counted once in the final total.

N/A: Not applicable refers to trades where Local Apprenticeship Committees do not exist. Designated occupations do not have local committees.

PC: Provisional Committee

TABLE 9 Number of Participants in the Registered Apprenticeship Program (RAP) by Trade as of December 31, 2001

TRADE DESCRIPTION	High School	Full Time	Certified	Total
Agricultural Equipment Technician	5	6	6	17
Appliance Service Technician	1	2	0	3
Auto Body Technician	33	41	6	80
Automotive Service Technician	126	137	35	298
Baker	8	1	2	11
Boilermaker	0	0	0	0
Bricklayer	1	2	0	3
Cabinetmaker	24	26	1	51
Carpenter	80	82	8	170
Communication Electrician	4	6	1	11
Concrete Finisher	1	3	0	4
Cook	64	43	4	111
Crane and Hoisting Equipment Operator	5	7	1	13
Electrical Motor Systems Technician	2	0	0	2
Electrician	89	136	12	237
Electronic Technician	1	3	0	4
Elevator Constructor	0	0	0	0
Floorcovering Installer	0	2	1	3
Gasfitter	3	2	0	5
Glazier	6	4	0	10
Hairstylist	100	52	70	222
Heavy Equipment Technician	88	134	27	249
Instrument Technician	29	26	3	58
Insulator	1	0	0	1
Ironworker	1	1	0	2
Ironworker - Metal Building Systems Erector	0	0	0	0
Landscape Gardener	3	2	0	5
Lather-Interior Systems Mechanic	5	1	0	6
Locksmith	4	4	0	8
Machinist	21	27	2	50
Millwright	26	42	1	69
Motorcycle Mechanic	14	7	2	23
Painter and Decorator	2	4	0	6
Parts Technician	22	23	9	54
Plumber	26	37	3	66
Power Lineman	2	1	1	4
Power System Electrician	0	6	0	6
Recreational Vehicle Service Technician	0	1	2	3
Refrigeration and Air Conditioning Mechanic	5	10	0	15
Roofer	0	2	0	2
Sawfiler	0	1	0	1
Sheet Metal Worker	6	7	0	13
Sprinkler Systems Installer	2	5	0	7
Steamfitter-Pipefitter	10	10	2	22
Structural Steel and Plate Fitter	2	4	0	6
Tilesetter	1	1	0	2
Transport Refrigeration Mechanic	3	0	0	3
Water Well Driller	1	0	0	1
Welder	153	148	47	348
TOTAL	**980**	**1059** (Note 1)	**246**	**2285**

Source: Apprenticeship and Industry Training, Alberta Learning

High School = RAP students currently in high school
Full Time = RAP students who have completed high school and are now full time apprentices
Certified = RAP students who have completed their apprenticeship program and are now certified journeymen

Note 1: Total number of RAP students certified since inception of program

TABLE 8 CONTINUED...

TRADE/OCCUPATION	Provincial Apprenticeship Committees/Occupational Committees	[redacted]	Totals Provincial Apprenticeship Committees	[redacted]	Total All Committees
Construction Craft Labourer Occupation	1	[redacted]	2	[redacted]	2
Gas Utility Operator Occupation	1	2	3	N/A	3
Plasterer Occupation	1	[redacted]	1	[redacted]	1
Steel Detailer (PC)	1	0	1	N/A	1
Warehousing Occupation	2	[redacted]	4	[redacted]	4
Total All Occupations	**6**	**5**	**11**	**N/A**	**11**
Total All Trades and Occupations	**45**	**161**	**206** *(Note 1)*	**54**	**260**

Source: Apprenticeship and Industry Training, Alberta Learning

Note 1: Some of the Provincial Apprenticeship Sub-Committee meetings were joint meetings, therefore, they appear for each trade but are only counted once in the final total.

N/A: Not applicable refers to trades where Local Apprenticeship Committees do not exist. Designated occupations do not have local committees.

PC: Provisional Committee

TABLE 9 Number of Participants in the Registered Apprenticeship Program (RAP) by Trade as of December 31, 2001

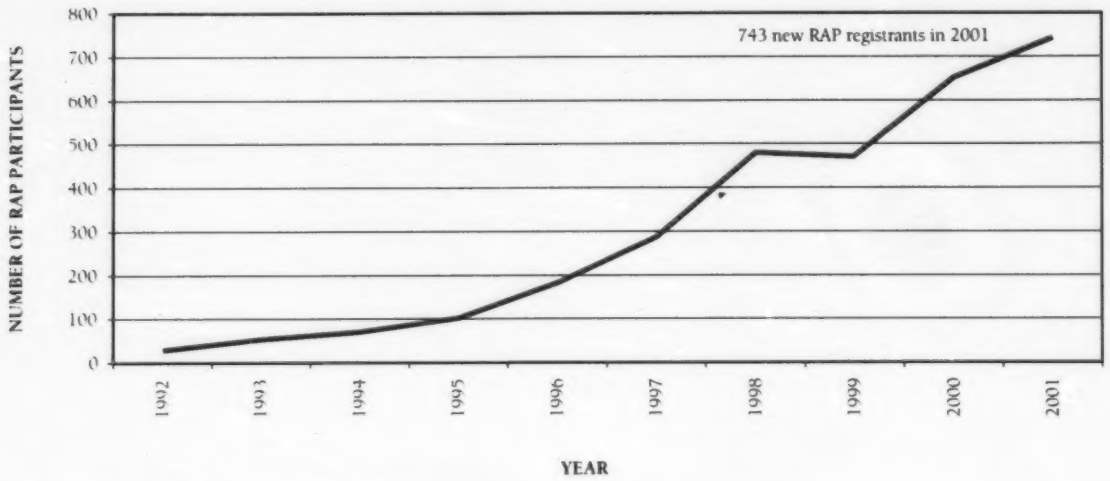
TRADE DESCRIPTION	High School	Full Time	Certified	Total
Agricultural Equipment Technician	5	6	6	17
Appliance Service Technician	1	2	0	3
Auto Body Technician	33	41	6	80
Automotive Service Technician	126	137	35	298
Baker	8	1	2	11
Boilermaker	0	0	0	0
Bricklayer	1	2	0	3
Cabinetmaker	24	26	1	51
Carpenter	80	82	8	170
Communication Electrician	4	6	1	11
Concrete Finisher	1	3	0	4
Cook	64	43	4	111
Crane and Hoisting Equipment Operator	5	7	1	13
Electrical Motor Systems Technician	2	0	0	2
Electrician	89	136	12	237
Electronic Technician	1	3	0	4
Elevator Constructor	0	0	0	0
Floorcovering Installer	0	2	1	3
Gasfitter	3	2	0	5
Glazier	6	4	0	10
Hairstylist	100	52	70	222
Heavy Equipment Technician	88	134	27	249
Instrument Technician	29	26	3	58
Insulator	1	0	0	1
Ironworker	1	1	0	2
Ironworker - Metal Building Systems Erector	0	0	0	0
Landscape Gardener	3	2	0	5
Lather-Interior Systems Mechanic	5	1	0	6
Locksmith	4	4	0	8
Machinist	21	27	2	50
Millwright	26	42	1	69
Motorcycle Mechanic	14	7	2	23
Painter and Decorator	2	4	0	6
Parts Technician	22	23	9	54
Plumber	26	37	3	66
Power Lineman	2	1	1	4
Power System Electrician	0	6	0	6
Recreational Vehicle Service Technician	0	1	2	3
Refrigeration and Air Conditioning Mechanic	5	10	0	15
Roofer	0	2	0	2
Sawfiler	0	1	0	1
Sheet Metal Worker	6	7	0	13
Sprinkler Systems Installer	2	5	0	7
Steamfitter-Pipefitter	10	10	2	22
Structural Steel and Plate Fitter	2	4	0	6
Tilesetter	1	1	0	2
Transport Refrigeration Mechanic	3	0	0	3
Water Well Driller	1	0	0	1
Welder	153	148	47	348
TOTAL	**980**	**1059** (Note 1)	**246**	**2285**

Source: Apprenticeship and Industry Training, Alberta Learning

High School = RAP students currently in high school
Full Time = RAP students who have completed high school and are now full time apprentices
Certified = RAP students who have completed their apprenticeship program and are now certified journeymen

Note 1: Total number of RAP students certified since inception of program

CHART 5 **Number of New Registrants in the Registered Apprenticeship Program (RAP) by Year, 1992 to 2001***



Source: Apprenticeship and Industry Training, Alberta Learning
*This graph represents statistics covering calendar years (January to December)